

TO 37C2-8-29-4

---

TECHNICAL MANUAL

ILLUSTRATED PARTS  
BREAKDOWN

STORAGE TANK, LIQUID OXYGEN  
TYPE TMU-7A/E  
2,000 GALLON CAPACITY  
PART NO. C70013  
NSN 3655-01-245-8408YD

HYDRA-RIG CRYOGENICS, INC.  
(F41608-86-D-0268)

DISTRIBUTION STATEMENT - THIS PUBLICATION IS REQUIRED  
FOR OFFICIAL USE OR FOR ADMINISTRATIVE OR OPERATIONAL  
PURPOSES ONLY. DISTRIBUTION IS LIMITED TO U.S. GOVERNMENT  
AGENCIES. OTHER REQUESTS FOR THIS DOCUMENT MUST BE REFERRED  
TO SAN ANTONIO ALC/MMEDT, KELLY AFB, TEXAS 78241-5990

PUBLISHED UNDER THE AUTHORITY OF THE SECRETARY OF THE AIR FORCE

---

1 SEP 1988

**LIST OF EFFECTIVE PAGES**

INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Dates of issue for original and changed pages are:

Original.....0 ... 1 Sept 87  
 Change.....0 ... 1 Sept 87

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 42 CONSISTING OF THE FOLLOWING:

Page No.	*Change No.	Page No.	*Change No.
Title.....0		2-10.....0	
A.....0		2-11.....0	
i.....0		2-12.....0	
ii.....0		2-13.....0	
1-1.....0		2-14.....0	
1-2.....0		2-15.....0	
1-3.....0		2-16.....0	
1-4.....0		2-17.....0	
1-5.....0		2-18.....0	
1-6.....0		2-19.....0	
1-7.....0		2-20.....0	
1-8 Blank.....0		2-21.....0	
2-1.....0		2-22.....0	
2-2.....0		2-23.....0	
2-3.....0		2-24.....0	
2-4.....0		2-25.....0	
2-5.....0		2-26.....0	
2-6.....0		3-1.....0	
2-7.....0		3-2.....0	
2-8.....0		3-3.....0	
2-9.....0		3-4 Blank.....0	

\*Zero in this column indicates an original page.

## **FOREWORD**

Purpose. This technical manual will provide the using activity with a parts breakdown for the Liquid Oxygen, Type TMU-7A/E Storage and transfer tank.

Scope. This manual will provide the using activity with applicable information required for component identification. Any corrections regarding this technical manual should be submitted in accordance with TO 00-5-1.

Throughout this manual the unit will primarily be called the Tank. It may also be called the Storage Tank. Liquid oxygen is abbreviated as LOX and liquid nitrogen is abbreviated as LIN in parts of this manual.

## TABLE OF CONTENTS

Section	Page	Section	Page
FOREWORD .....	i	II MAINTENANCE PARTS LIST .....	2-1
I INTRODUCTION .....	1-1	Figure 1. Storage Tank Assem-	
1-1 General .....	1-1	bly, Liquid Oxygen,	
1-2 Related Publications .....	1-1	Type TMU-7A/E .....	2-1
1-3 Table of Contents .....	1-1	Figure 2. Control Housing	
1-4 Maintenance Parts List ..	1-1	Installation .....	2-3
1-4.1 Explanation .....	1-1	Figure 3. Service Hose	
1-4.2 Figure and Index Number ..	1-1	Installation .....	2-6
1-4.3 Part Number .....	1-1	Figure 4. Servicing Line	
1-4.4 Federal Supply Code		Installation .....	2-7
for Manufacturers .....	1-2	Figure 5. Fill/Drain Line	
1-4.5 Description .....	1-2	Installation .....	2-10
1-4.6 Units Per Assembly .....	1-2	Figure 6. Pressure Buildup	
1-4.7 Usable On Code .....	1-2	Coil Installation .....	2-13
1-4.8 Source, Maintainability,		Figure 7. Vapor Vent Manifold	
and Recovery Codes .....	1-2	Installation .....	2-14
1-5 Numerical Index .....	1-2	Figure 8. Control Panel	
1-5.1 Explanation .....	1-2	Installation .....	2-16
1-5.2 Part Number .....	1-2	Figure 9. Vacuum Line Shutoff	
1-5.3 Stock Number .....	1-2	off Valve	
1-5.4 Figure and Index		Installation .....	2-19
Number .....	1-3	Figure 10. 2 IN Globe Valve ..	2-21
1-5.5 Quantity Per Article .....	1-3	Figure 11. 1 IN Globe Valve ..	2-23
1-6 How To Use The Illustrat-		Figure 12. 1/4 IN Globe	
ed Parts Breakdown .....	1-3	Valve .....	2-25
1-6.1 When The Part Number		III NUMERICAL INDEX .....	3-1
Is Not Known .....	1-3		
1-6.2 When The Part Number			
Is Known .....	1-3		
1-7 Vendor's Codes .....	1-3		
1-7.1 Explanation .....	1-3		
1-8 Symbols and Abbrevi-			
ations Used .....	1-5		

## SECTION I INTRODUCTION

### 1-1 GENERAL.

1-1.1 This Illustrated Parts Breakdown lists and identifies by part number, description and appearance the items comprising Storage Tank, Liquid Oxygen, 2000 Gallon, Type TMU-7A/E, Part number C70013, manufactured by Hydra Rig Cryogenics, Inc., Schulenburg, Texas.

1-1.2 The breakdown is used for requisitioning, storing, issuing, and identifying parts. It may also be used for illustrating the assembly and disassembly relationship of parts or assembly of parts. This manual may also be used in conjunction with T.O.37C2-8-29-1, Operation and Maintenance Instruction and T.O.37C2-8-29-3, Repair and Overhaul Instruction Manuals.

1-1.3 The Illustrated Parts Breakdown is divided into three (3) sections: The Introduction (Section I), the Maintenance Parts Lists (Section II), and the Numerical Index (Section III).

### 1-2 RELATED TECHNICAL PUBLICATIONS.

1-2.1 The applicable Operation and Maintenance Instructions, T.O.37C2-8-29-1 and Repair and Overhaul Instructions, T.O.37C2-8-29-3 may be used with this Illustrated Parts Breakdown to provide a better understanding of the Tank. Each manual supplements the other manuals.

### 1-3 TABLE OF CONTENTS.

1-3.1 The Table of Contents lists the title and first page number of each section. It also lists the title and page number of each illustration.

### 1-4 MAINTENANCE PARTS LIST.

1-4.1 Explanation. The Maintenance Parts List, Section II, consists of the illustrated and tabulated breakdown. The listings are for major assemblies, subassemblies, and the detail parts of the Tank. To aid in identification by appearance, each part in the listing is indexed to an exploded view illustration. Each main assembly listed is followed immediately by its component or detail parts which are properly indented to show the part's relationship to the assembly and recommended disassembly sequence. Component parts of the Tank which are not included in any main assembly, but are used in conjunction with, attach to, or attach a main assembly, are listed either preceding or following the main assembly, are listed in with the assembly. Information is listed under the column headings described in the following paragraphs.

1-4.2 Figure and Index Number. The first figure in this column is the illustration number of the assembly listed. The figure number is not listed thereafter, except with the first item of the listing continued on succeeding pages. The number following the dash is the index number. The index numbers are arranged in numerical sequence in the order of recommended disassembly. These numbers are primarily used to assist in the location of a part description when the part has been found on the illustration or the Numerical Index.

1-4.3 Part Number. Part numbers are used exclusively to identify parts. All part numbers listed are those of the prime

contractor, except for government standards or vendor parts. In the case of vendor parts, the part number appearing in this column represents the exact replacement part. When a part has no number, the notation "No Number" appears in the Part Number column. Part numbers followed by an asterisk (\*) require requisitioning by AFR 6-1.

**1-4.4 Federal Supply Code for Manufacturers (FSCM).** The manufacturer of a vendor-supplied items identified in this column by the manufacturer's code. A list of applicable codes and manufacturers is presented at the end of this section.

**1-4.5 Description.** This column lists the nomenclature of assemblies, subassemblies, and detail parts, together with, where necessary, descriptive information sufficient to completely identify an item. Subassemblies and detail parts of an assembly follow the listing of the assembly and are indented to the next column. Attaching parts are identified by (AP) following the description.

**1-4.6 Units Per Assembly.** The quantities listed in this column are the total quantity used per Tank at the location listed. The quantities used for assemblies, subassemblies, and detail parts of assemblies, indented under the main assembly, are the quantity used for the assembly. The quantities specified are not necessarily the total used per Tank.

**1-4.7 Usable on Code.** Only one model of the Tank, Type TMU-7A/E is covered in this manual. Codes are omitted for assemblies and parts installed in all configurations of the end items covered in the manual.

**1-4.8 Source, Maintainability, and Recoverability Codes.** This column contains the 5-character Joint Military Services Uniform code for each item as supplied by the procuring activity. Definitions of these SMR Codes are available in T.O.00-25-195.

## 1-5 NUMERICAL INDEX.

**1-5.1 Explanation.** The Numerical Index, Section III, is a complete alpha-numeric list of all part numbers contained in the Maintenance Parts List, Section II. The location and is listed under the column headings.

**1-5.2 Part Number.** This column lists all part numbers contained in the Maintenance Parts List, Section II. The part numbers are arranged in alphanumeric order, beginning with the extreme left-handed position and continue from the left to right, one position at a time. In the first position, letters A through N and P through Z take precedence over numerals, 0 through 9 (Alphabetic 0s are considered numeric zeros). For the second and succeeding characters of a part number, precedence is as follows:

- a. Diagonal (/).
- b. Period (.)
- c. Dash (-).
- d. Letters A through N and P through Z.
- e. Numerals 0 through 9.

### NOTE

It should be noted that in the Numerical Index, in accordance with current practice in the Federal Supply System, all prefix and suffix letters are closed up to numerals, consistently, whenever the identity of a part number is not affected.

**1-5.3 Stock Number.** The policy of including and updating stock number information has been discontinued. Refer to USAF Master Cross Reference Index S-00-1-1 for converting part numbers to stock number information.

**1-5.4 Figure and Index Number.** This column lists the figure number of the illustration and the index number. When an assembly, subassembly, or detail part has not been assigned an index number, the figure and index number of the pre-

ceding part in the Maintenance Parts List shall be used with the letter "F" before the figure number. The letter "F" means "Follows".

The listing for Government Standard parts, AN, MS, etc., is for the first occurrence only. Each location is listed for all other parts.

#### 1-6 HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN.

##### 1-6.1 When The Part Number Is Not Known.

a. Determine the function and application of the part required. Turn to the Table of Contents and select the most appropriate title.

b. Turn to the page indicated and locate the desired part on the illustration.

c. From the illustration, obtain the index number assigned to the desired part. Refer to the accompanying description for specific information regarding the part.

##### 1-6.2 When The Part Number Is Known.

a. When the part number is known, refer to Part III, Numerical Index. Locate the part number and note the figure and index number assigned to the part.

b. Turn to the figure indicated and locate the index number referenced in the Numerical Index.

c. For an illustration of a part or its location refer to the same index number on the accompanying illustration.

#### 1-7 VENDORS' CODES.

1-7.1 Explanation. Manufacturers of vendor parts and certain procuring agencies are identified in the FSCM column by a five-digit code obtained from the Federal Cataloging Handbook, H4-1. The following is a list of the codes used in Section

II. Together with the names and addresses of the vendors are also included. FSCMs are listed first in numerical sequence (Code to Name), and immediately followed by an alphabetically sequenced listing of all manufacturers and agencies (Name to Code).

Code	Name and Address of Manufacturer/ Responsible Agency
01276	Aeroquip Corp., Industrial Div. 1225 West Main Street Van Wert, Ohio 45891
02570	Crawford Fitting Company 29500 Solon Road Solon, Ohio 44139
04368	Puritas Metal Products Co. 12305 Grimsby Cleveland, Ohio 44135
06023	Rego Company 4201 West Peterson Avenue Chicago, Illinois 60646
07477	BS and D Safety Systems, Inc. 7455 East 46th. Street Tulsa, Oklahoma 74147
12623	Whitney Company 318 Bishop Road Highland Heights, Ohio 44143
14487	Cryogenic Energy Company 6533 North Washington Street Denver, Colorado 80229
16570	Cryolab, Inc. 4175 Santa Fe Road San Luis Obispo, California 93401
17506	Parker Seal Company 2360 Palumbo Drive Lexington, Kentucky 40512
18876	Army Missle Command Redstone Arsenal, Alabama 35809
18925	Parker Hannifin Corporation 601 South Wilmont Otsego, Michigan 49078

## **HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN**

**IF YOU DON'T KNOW THE PART NUMBER**

DO THIS



Refer to the Table of Contents and select the illustration most likely to contain the desired part.

<b>TABLE OF CONTENTS</b>			
Section	Page	Section	Page
<b>INTRODUCTION</b>	<b>1</b>	<b>II MAINTENANCE PARTS LIST</b>	<b>2-1</b>
1-1 General	1-1	Figure 1. Starting Tool Selection Chart, 200-270V.....	2-1
1-2 Programs	1-1	Figure 2. Control Housing Installation.....	2-2
1-3 Scope	1-1	Figure 3. Power Supply Mounting Line Installation.....	2-3
1-4 Maintenance	1-1	Figure 4. Power Supply Mounting and Bus Strip Installation.....	2-5
1-5 Reliability	1-1	Figure 5. Brake Panel Installation.....	2-9
1-6 Policies	1-2	Figure 6. Terminal Block Installation.....	2-10
1-7 Parts	1-1	Figure 7. Body Brackets Installation.....	2-11
1-8 Maintenance Parts List	1-1	Figure 8. Body Mounting Brackets.....	2-12
1-9 Repair Information	1-2	Figure 9. Control Wheel Mounting.....	2-13
1-10 Safety and Assembly Guidelines	1-2	Figure 10. Motor, Body, and Bush Installation.....	2-14

Figure 13. 1 Inch Globe Valve.. 2-17

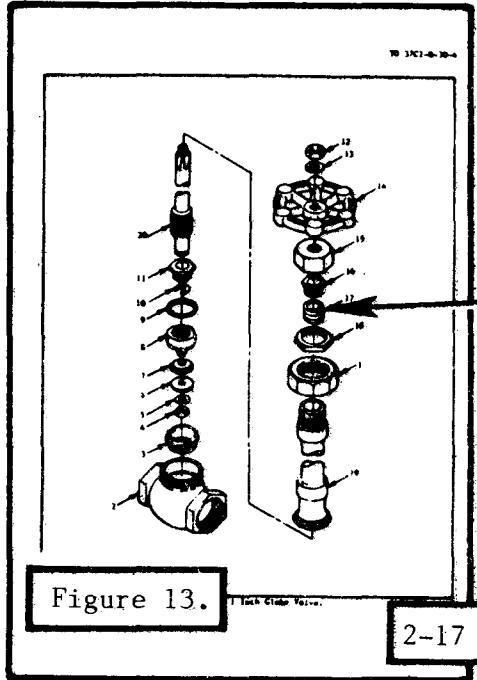


Figure 13. Thick Glass Valve.

2-17

Refer to the page number indicated and find the desired part on the illustration.

1-3.1 Name With Part Number Is	1-1
Name .....	
1-3.2 Where The Part Number Is	1-1
Name .....	
1-6 "Vendor's" Codes	1-1
1-6.1 Identification	1-1
1-7 Symbols and Abbreviations	1-4
List .....	
1-7.1 General	1-4



Note the Figure Number of the illustration and the Index Number of the part. Refer to the corresponding Figure-Index Number in the accompanying Parts List for Part Number, Description, etc.

3

## **HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN**

**IF YOU DO KNOW THE PART NUMBER**

DO THIS



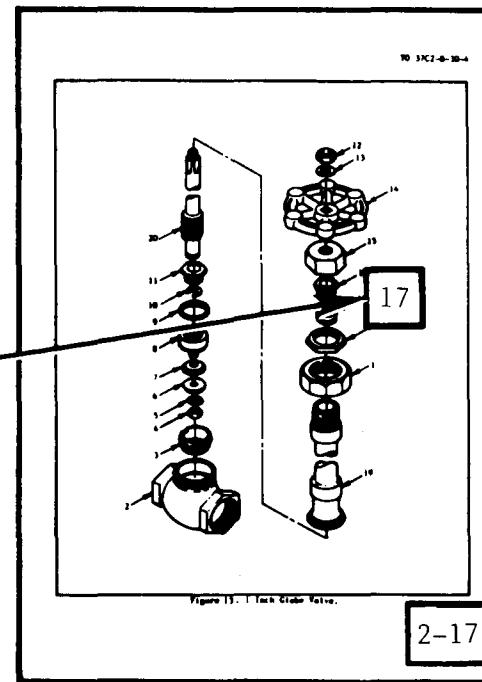
Find the Part Number in the Numerical Index. Note the Figure and Index Number where the part is called out in the parts list.

SECTION II NUMERICAL INDEX					
Part Number	Figure and Index	Part Number	Figure and Index	Part Number	Figure and Index
AN51-B10-5-15	5-12	C1000	5-34	C1001-1	5-31
AN51-B10-6-15	5-6	C1001	5-35	C1001-2	5-22
AN51-B21-5	5-1	C1001-3	5-38	C1001-3	5-23
AN51-B21-6	5-1	C1001-5	5-39	C1001-5	5-24
AN52-B60A	5-15	C1010	5-35	C1001-6	5-19
AN52-B60	5-21	C1010	5-37	C1001-6	5-20
B-109A	5-11	C1011	5-27	C1001-7	5-21
B-109B	5-11	C1012	5-18	C1001-8	5-25
B-109C	5-18	C1012	5-20	C1001-8	5-26
B-109D	5-18	C1013	5-21	C1001-9	5-27
B-109E	5-18	C1013	5-22	C1001-9	5-28
B-109F	5-18	C1014	5-14	C1001-10	5-29
B-109G	5-18	C1014	5-15	C1001-10	5-30
B-109H	5-18	C1015	5-1	C1001-11	5-31
B-109I	5-18	C1015	5-2	C1001-11	5-32
B-109J	5-18	C1016	5-1	C1001-12	5-33
B-109K	5-18	C1016	5-2	C1001-12	5-34
B-109L	5-18	C1017	5-1	C1001-13	5-35
B-109M	5-18	C1017	5-2	C1001-13	5-36
B-109N	5-18	C1018	5-1	C1001-14	5-37
B-109O	5-18	C1018	5-2	C1001-14	5-38
B-109P	5-18	C1019	5-1	C1001-15	5-39
B-109Q	5-18	C1019	5-2	C1001-15	5-40
B-109R	5-18	C1020	5-1	C1001-16	5-41
B-109S	5-18	C1020	5-2	C1001-16	5-42
C1001	5-12	C1021	5-1	C1002	5-1
C1002	5-12	C1021	5-2	C1002	5-2
C1003	5-12	C1022	5-1	C1003	5-3
C1004	5-12	C1022	5-2	C1003	5-4
C1005	5-12	C1023	5-1	C1004	5-5
C1006	5-12	C1023	5-2	C1004	5-6
C1007	5-12	C1024	5-1	C1005	5-7
C1008	5-12	C1024	5-2	C1005	5-8
C1009	5-12	C1025	5-1	C1006	5-9
C1009	5-12	C1025	5-2	C1006	5-10
C1010	5-12	C1026	5-1	ES1566-002	5-11
C1010	5-12	C1026	5-2	ES1566-002	5-12
C1011	5-12	C1027	5-1	ES1566-003	5-13
C1011	5-12	C1027	5-2	ES1566-003	5-14
C1012	5-12	C1028	5-1	ES1566-010	5-15
C1012	5-12	C1028	5-2	ES1566-010	5-16
C1013	5-12	C1029	5-1	ES1566-011	5-17
C1013	5-12	C1029	5-2	ES1566-011	5-18
C1014	5-12	C1030	5-1	ES1566-012	5-19
C1014	5-12	C1030	5-2	ES1566-012	5-20
C1015	5-12	C1031	5-1	ES1566-013	5-21
C1015	5-12	C1031	5-2	ES1566-013	5-22
C1016	5-12	C1032	5-1	ES1566-014	5-23
C1016	5-12	C1032	5-2	ES1566-014	5-24
C1017	5-12	C1033	5-1	ES1566-015	5-25
C1017	5-12	C1033	5-2	ES1566-015	5-26
C1018	5-12	C1034	5-1	ES1566-016	5-27
C1018	5-12	C1034	5-2	ES1566-016	5-28
C1019	5-12	C1035	5-1	ES1566-017	5-29
C1019	5-12	C1035	5-2	ES1566-017	5-30
C1020	5-12	C1036	5-1	ES1566-018	5-31
C1020	5-12	C1036	5-2	ES1566-018	5-32
C1021	5-12	C1037	5-1	ES1566-019	5-33
C1021	5-12	C1037	5-2	ES1566-019	5-34
C1022	5-12	C1038	5-1	ES1566-020	5-35
C1022	5-12	C1038	5-2	ES1566-020	5-36
C1023	5-12	C1039	5-1	ES1566-021	5-37
C1023	5-12	C1039	5-2	ES1566-021	5-38
C1024	5-12	C1040	5-1	ES1566-022	5-39
C1024	5-12	C1040	5-2	ES1566-022	5-40
C1025	5-12	C1041	5-1	ES1566-023	5-41
C1025	5-12	C1041	5-2	ES1566-023	5-42
C1026	5-12	C1042	5-1	ES1566-024	5-43
C1026	5-12	C1042	5-2	ES1566-024	5-44
C1027	5-12	C1043	5-1	ES1566-025	5-45
C1027	5-12	C1043	5-2	ES1566-025	5-46
C1028	5-12	C1044	5-1	ES1566-026	5-47
C1028	5-12	C1044	5-2	ES1566-026	5-48
C1029	5-12	C1045	5-1	ES1566-027	5-49
C1029	5-12	C1045	5-2	ES1566-027	5-50
C1030	5-12	C1046	5-1	ES1566-028	5-51
C1030	5-12	C1046	5-2	ES1566-028	5-52
C1031	5-12	C1047	5-1	ES1566-029	5-53
C1031	5-12	C1047	5-2	ES1566-029	5-54
C1032	5-12	C1048	5-1	ES1566-030	5-55
C1032	5-12	C1048	5-2	ES1566-030	5-56
C1033	5-12	C1049	5-1	ES1566-031	5-57
C1033	5-12	C1049	5-2	ES1566-031	5-58
C1034	5-12	C1050	5-1	ES1566-032	5-59
C1034	5-12	C1050	5-2	ES1566-032	5-60
C1035	5-12	C1051	5-1	ES1566-033	5-61
C1035	5-12	C1051	5-2	ES1566-033	5-62
C1036	5-12	C1052	5-1	ES1566-034	5-63
C1036	5-12	C1052	5-2	ES1566-034	5-64
C1037	5-12	C1053	5-1	ES1566-035	5-65
C1037	5-12	C1053	5-2	ES1566-035	5-66
C1038	5-12	C1054	5-1	ES1566-036	5-67
C1038	5-12	C1054	5-2	ES1566-036	5-68
C1039	5-12	C1055	5-1	ES1566-037	5-69
C1039	5-12	C1055	5-2	ES1566-037	5-70
C1040	5-12	C1056	5-1	ES1566-038	5-71
C1040	5-12	C1056	5-2	ES1566-038	5-72
C1041	5-12	C1057	5-1	ES1566-039	5-73
C1041	5-12	C1057	5-2	ES1566-039	5-74
C1042	5-12	C1058	5-1	ES1566-040	5-75
C1042	5-12	C1058	5-2	ES1566-040	5-76
C1043	5-12	C1059	5-1	ES1566-041	5-77
C1043	5-12	C1059	5-2	ES1566-041	5-78
C1044	5-12	C1060	5-1	ES1566-042	5-79
C1044	5-12	C1060	5-2	ES1566-042	5-80
C1045	5-12	C1061	5-1	ES1566-043	5-81
C1045	5-12	C1061	5-2	ES1566-043	5-82
C1046	5-12	C1062	5-1	ES1566-044	5-83
C1046	5-12	C1062	5-2	ES1566-044	5-84
C1047	5-12	C1063	5-1	ES1566-045	5-85
C1047	5-12	C1063	5-2	ES1566-045	5-86
C1048	5-12	C1064	5-1	ES1566-046	5-87
C1048	5-12	C1064	5-2	ES1566-046	5-88
C1049	5-12	C1065	5-1	ES1566-047	5-89
C1049	5-12	C1065	5-2	ES1566-047	5-90
C1050	5-12	C1066	5-1	ES1566-048	5-91
C1050	5-12	C1066	5-2	ES1566-048	5-92
C1051	5-12	C1067	5-1	ES1566-049	5-93
C1051	5-12	C1067	5-2	ES1566-049	5-94
C1052	5-12	C1068	5-1	ES1566-050	5-95
C1052	5-12	C1068	5-2	ES1566-050	5-96
C1053	5-12	C1069	5-1	ES1566-051	5-97
C1053	5-12	C1069	5-2	ES1566-051	5-98
C1054	5-12	C1070	5-1	ES1566-052	5-99
C1054	5-12	C1070	5-2	ES1566-052	5-100
C1055	5-12	C1071	5-1	ES1566-053	5-101
C1055	5-12	C1071	5-2	ES1566-053	5-102
C1056	5-12	C1072	5-1	ES1566-054	5-103
C1056	5-12	C1072	5-2	ES1566-054	5-104
C1057	5-12	C1073	5-1	ES1566-055	5-105
C1057	5-12	C1073	5-2	ES1566-055	5-106
C1058	5-12	C1074	5-1	ES1566-056	5-107
C1058	5-12	C1074	5-2	ES1566-056	5-108
C1059	5-12	C1075	5-1	ES1566-057	5-109
C1059	5-12	C1075	5-2	ES1566-057	5-110
C1060	5-12	C1076	5-1	ES1566-058	5-111
C1060	5-12	C1076	5-2	ES1566-058	5-112
C1061	5-12	C1077	5-1	ES1566-059	5-113
C1061	5-12	C1077	5-2	ES1566-059	5-114
C1062	5-12	C1078	5-1	ES1566-060	5-115
C1062	5-12	C1078	5-2	ES1566-060	5-116
C1063	5-12	C1079	5-1	ES1566-061	5-117
C1063	5-12	C1079	5-2	ES1566-061	5-118
C1064	5-12	C1080	5-1	ES1566-062	5-119
C1064	5-12	C1080	5-2	ES1566-062	5-120
C1065	5-12	C1081	5-1	ES1566-063	5-121
C1065	5-12	C1081	5-2	ES1566-063	5-122
C1066	5-12	C1082	5-1	ES1566-064	5-123
C1066	5-12	C1082	5-2	ES1566-064	5-124
C1067	5-12	C1083	5-1	ES1566-065	5-125
C1067	5-12	C1083	5-2	ES1566-065	5-126
C1068	5-12	C1084	5-1	ES1566-066	5-127
C1068	5-12	C1084	5-2	ES1566-066	5-128
C1069	5-12	C1085	5-1	ES1566-067	5-129
C1069	5-12	C1085	5-2	ES1566-067	5-130
C1070	5-12	C1086	5-1	ES1566-068	5-131
C1070	5-12	C1086	5-2	ES1566-068	5-132
C1071	5-12	C1087	5-1	ES1566-069	5-133
C1071	5-12	C1087	5-2	ES1566-069	5-134
C1072	5-12	C1088	5-1	ES1566-070	5-135
C1072	5-12	C1088	5-2	ES1566-070	5-136
C1073	5-12	C1089	5-1	ES1566-071	5-137
C1073	5-12	C1089	5-2	ES1566-071	5-138
C1074	5-12	C1090	5-1	ES1566-072	5-139
C1074	5-12	C1090	5-2	ES1566-072	5-140
C1075	5-12	C1091	5-1	ES1566-073	5-141
C1075	5-12	C1091	5-2	ES1566-073	5-142
C1076	5-12	C1092	5-1	ES1566-074	5-143
C1076	5-12	C1092	5-2	ES1566-074	5-144
C1077	5-12	C1093	5-1	ES1566-075	5-145
C1077	5-12	C1093	5-2	ES1566-075	5-146
C1078	5-12	C1094	5-1	ES1566-076	5-147
C1078	5-12	C1094	5-2	ES1566-076	5-148
C1079	5-12	C1095	5-1	ES1566-077	5-149
C1079	5-12	C1095	5-2	ES1566-077	5-150
C1080	5-12	C1096	5-1	ES1566-078	5-151
C1080	5-12	C1096	5-2	ES1566-078	5-152
C1081	5-12	C1097	5-1	ES1566-079	5-153
C1081	5-12	C1097	5-2	ES1566-079	5-154
C1082	5-12	C1098	5-1	ES1566-080	5-155
C1082	5-12	C1098	5-2	ES1566-080	5-156
C1083	5-12	C1099	5-1	ES1566-081	5-157
C1083	5-12	C1099	5-2	ES1566-081	5-158
C1084	5-12	C1100	5-1	ES1566-082	5-159
C1084	5-12	C1100	5-2	ES1566-082	5-160
C1085	5-12	C1101	5-1	ES1566-083	5-161
C1085	5-12	C1101	5-2	ES1566-083	5-162
C1086	5-12	C1102	5-1	ES1566-084	5-163
C1086	5-12	C1102	5-2	ES1566-084	5-164
C1087	5-12	C1103	5-1	ES1566-085	5-165
C1087	5-12	C1103	5-2	ES1566-085	5-166
C1088	5-12	C1104	5-1	ES1566-086	5-167
C1088	5-12	C1104			

Turn to the Figure and Index Number indicated to obtain the desired information.



When the illustration of the part is desired then refer to the same Figure and Index Number on the accompanying illustration.



Code	Name and Address of Manufacturer/ Responsible Agency	Name and Address of Manufacturer/ Responsible Agency	Code
19220	Eberhard Mfg. Company 21944 Drake Road Strongsville, Ohio 44139	Aeroquip Corp., Industrial Div. 1255 West Main Street Van Wert, Ohio 45891	01276
28968	Hoke, Inc. 1 Tenakill Park Cresskill, New Jersey 07626	BS and D Safety Systems, Inc. 7455 East 46th. Street Tulsa, Oklahoma 74147	07477
39739	Merin Instrument Company 10920 Madison Avenue Cleveland, Ohio 44102	Cash A W Valve Mfg. Company 666 East Walbush Avenue Decatur, Illinois 62525	71342
53790	Stauff Corporation 21-23 Industrial Park Waldwick, New Jersey 07463	Comtech, Inc. 550 Parrott Street San Jose, California 95112	54839
54839	Comtech, Inc. 550 Parrott Street San Jose, California 95112	Crawford Fitting Company 29500 Solon Road Solon, Ohio 44139	02570
56608	McDaniels Controls P.O. Box 187 Luling, Louisiana 70070	Cryogenic Energy Company 6533 North Washington Street Denver, Colorado 80229	14487
67053	Hydra Rig Cryogenic, Inc. High Hill Road Schulenburg, Texas 78956	Cryolab, Inc. 4175 Santa Fe Road San Luis Obispo, California 93401	16570
71342	Cash A W Valve Mfg. Company 666 East Walbush Avenue Decatur, Illinois 62525	Army Missle Command Redstone Arsenal, Alabama 35809	18876
72352	Teledyne Farris Engineering 400 Commercial Avenue Palisades Park, New Jersey 07650	Eberhard Mfg. Company 21944 Drake Road Strongsville, Ohio 44139	19220
88893	Polar Hardware Mfg. Company 3822 West Lawrence Avenue Chicago, Illinois 60625	Hoke, Inc. 1 Tenakill Park Cresskill, New Jersey 07626	28968
96906	Military Standards promulgated by Military Departments under the authority of Defense Stan- dardization Manual, 4120-3-M	Hydra Rig Cryogenics, Inc. High Hill Road Schulenburg, Texas 78956	67053
98750	San Antonio Air Logistics Center Kelly Air Force Base, Texas 78241	McDaniel Controls P.O. Box 187 Luling, Louisiana 70070	56608
		Merin Instrument Company 10920 Madison Avenue Cleveland, Ohio 44102	39739

Name and Address of Manufacturer/ Responsible Agency	Code
Military Standards promulgated by Military Departments under the authority of Defense Stan- dardization Manual, 4120-3-M	96906
Parker Hannifin Corporation 601 South Wilmont Otsego, Michigan 49078	18925
Parker Seal Company 2360 Palumbo Drive Lexington, Kentucky 40512	17506
Polar Hardware Mfg. Company 3822 West Lawrence Avenue Chicago, Illinois 60625	88893
Puritas Metal Products Co. 12305 Grimsby Cleveland, Ohio 44135	04368
Rego Company 4201 West Peterson Avenue Chicago, Illinois 60646	06023
San Antonio Air Logistics Center Kelly Air Force Base, Texas 78241	98750
Stauff Corporation 21-23 Industrial Park Waldwick, New Jersey 07463	53790
Teledyne Farris Engineering 400 Commercial Avenue Palisades Park, New Jersey 07650	72352
Whitney Company 318 Bishop road Highland Heights, Ohio 44143	12623

1-8 SYMBOLS AND ABBREVIATIONS USED.

1-8.1 Symbols and abbreviations used in the Illustrated Parts Breakdown are defined as follows:

AL	Aluminum
AP	Attaching Parts
AR	As Required
BRS	Brass
BRZ	Bronze
COP	Copper
CRS	Corrosion Resistant Steel
CS	Carbon Steel
DIA	Diameter
DRW	Drawing
FIG	Figure
F	Follows
FT	Foot/feet
I	Iron
ID	Inside Diameter
IN	Inch/inches
LB	Pound/pounds
LC	LOX Clean
LG	Long
LOX	Liquid Oxygen
NOM	Nominal
NPT	National Taper Pipe (thread)
NSN	National NATO Stock Number
OD	Outside Diameter
QTY	Quantity
PSIG	Pounds-Force Per Square Inch Gage
REF	Reference
SST	Stainless Steel
THK	Thick
UNC	Unified Coarse Thread
*	Requisition this marking in a part number in accordance with the requirements of AFR 6-1.



## SECTION II MAINTENANCE PARTS LIST

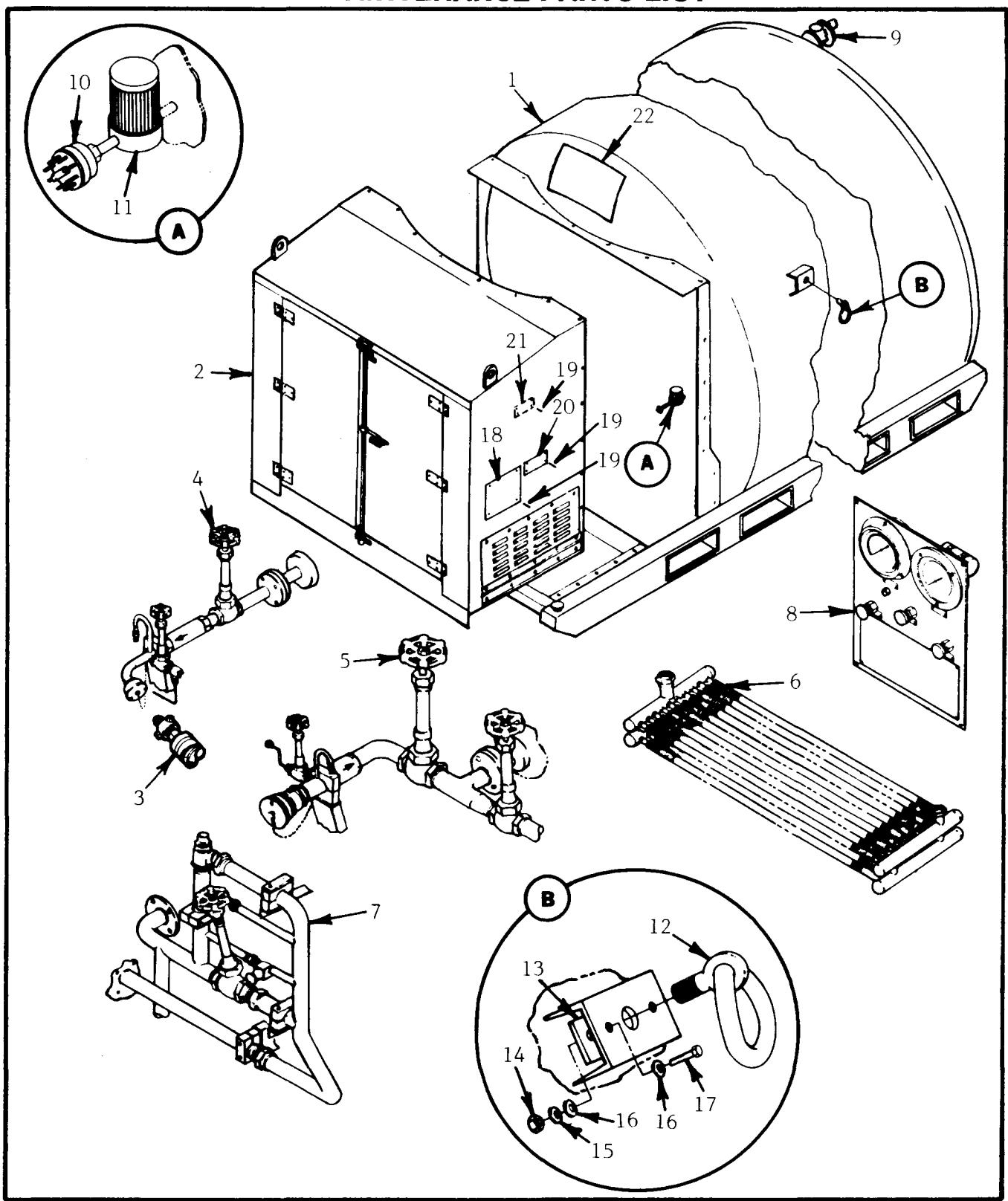


Figure 1. Storage Tank Assembly, Liquid Oxygen, Type TMU-7A/E.

Figure & Index Number	Part Number	FSCM	Description	Units Per Assy.	Usable On Code	SMR Code
1-	NO NUMBER	67053	TANK, Storage, Liquid Oxygen, 2000 Gallon, Type-7A/E	REF	ALL	-
-1	C70013	67053	.TANK ASSEMBLY, Storage, .... Liquid Oxygen	1		PEOPDS
-2	C70043	67053	.HOUSING ASSEMBLY, Control, .. (See Figure 2 for Parts Breakdown)	1		AOOFFN
-3	59C6671-1	98750	.HOSE ASSEMBLY, Service, .... (See Figure 3 for Parts Breakdown)	1		A00
-4	C50033	67053	.LINE ASSEMBLY, Servicing, .. (See Figure 4 for Parts Breakdown)	1		A00
-5	C50034	67053	.LINE ASSEMBLY, Fill/Drain, .. (See Figure 5 for Parts Breakdown)	1		A00
-6	C50154	67503	.COIL ASSEMBLY, Pressure .... Building, (See Figure 6 for Parts Breakdown)	1		PBOFFP
-7	C50037	67053	.MANIFOLD ASSEMBLY, Vapor ... Vent, (See Figure 7 for Parts Breakdown)	1		A00
-8	C50043	67053	.PANEL ASSEMBLY, Control, ... (See Figure 8 for Parts Breakdown)	1		A00
-9	C50065	67053	.VALVE, Shutoff, Vacuum ..... Line, (See Figure 9 for Parts Breakdown)	1		A00
-10	TVT-1504	54839	.SENSOR, Vacuum, 0-1000 ..... Micron Range	1		PAOZZN
-11	4551F2B	28968	.VALVE, Bellows Sealed, .... 1/4 IN Female NPT	1		PAOZZN
-12	49B6564	96906	.RING, Lift/Tiedown, 25,000 .. LB Capacity	4		PAOZZN
-13	C30030	67053	.PLATE, Nut Tie-Down,..... 25,000 LB Capacity	4		PAOZZN
-14	MS516285-3	96906	.NUT, Hex, 3/8-16UNC-2B, (AP)	8		PAOZZN
-15	MS35338-46	96906	.WASHER, Lock, 3/8 IN, (AP).	8		PAOZZN
-16	MS27183-14	96906	.WASHER, Flat, 1/4 IN, (AP).	16		PAOZZN
-17	MS90728-64	96906	.BOLT, Hex, 3/8-16UNC-2A, ... 1-1/2 IN LG, (AP)	8		PAOZZN
-18	C50099*	67053	.PLATE, Transportation Data .. and Lifting Instructions	1		PAFZZN
-19	MS20604B4T4	96906	.RIVET, Blind, 1/8 IN DIA x .. 1/4 IN LG, (AP)	4		PAOZZN
-20	C30144	67053	.PLATE, Name, Tank .....	1		MFOZZN
-21	C30090	67053	.PLATE, Insulation .....	1		MFOZZN
-22	8221044-01*	98750	.Decal, Contents/Warning, ... Liquid Oxygen, 14 x 16 IN	4		PAOZZN

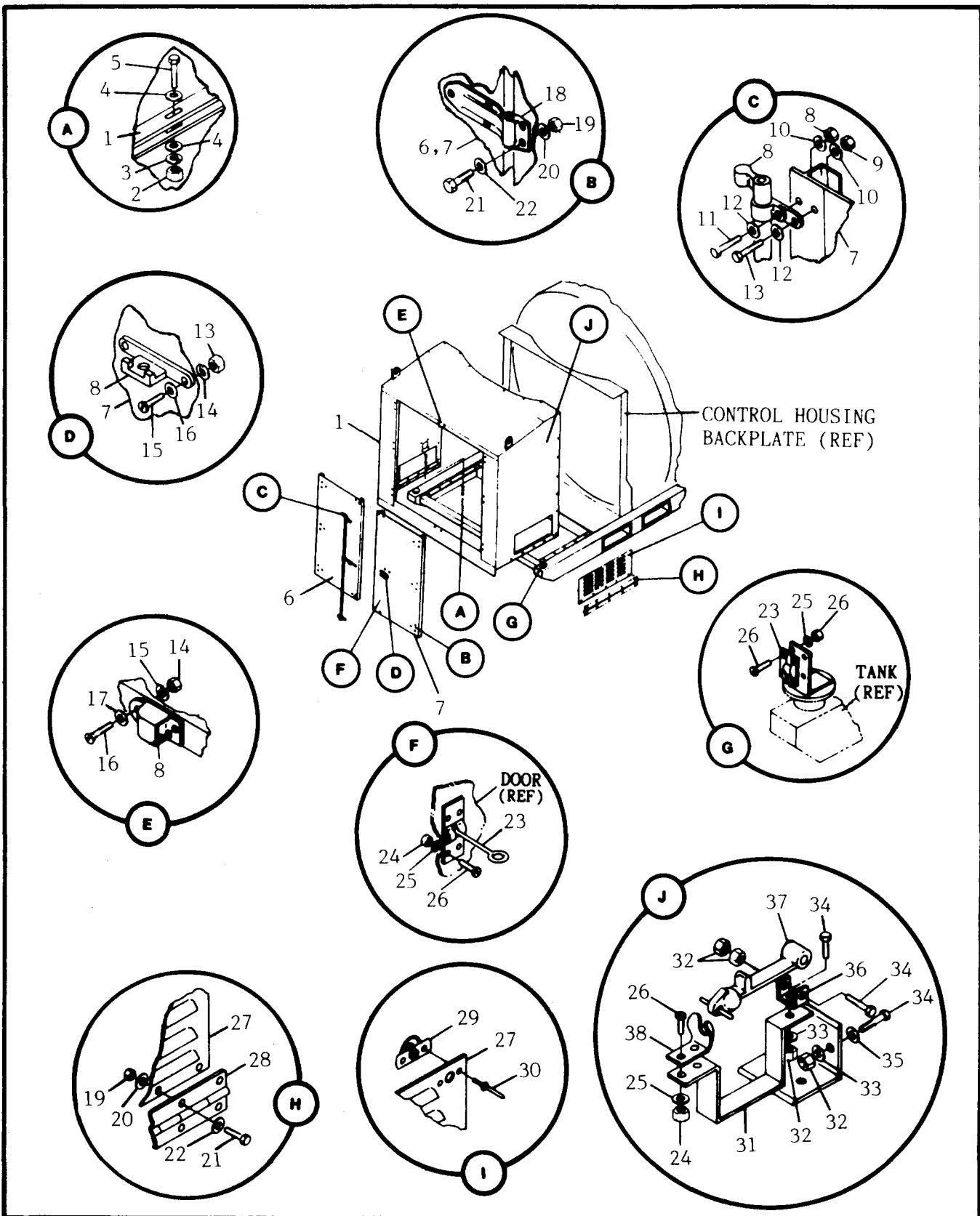


Figure 2. Control Housing Installation.

Figure & Index Number	Part Number	FSCM	Description	Units Per Assy.	Usable On Code	SMR Code
2-	NO NUMBER	67053	CONTROL HOUSING INSTALLATION.	REF	ALL	-
-1	C70043	67053	.CONTROL HOUSING ASSEMBLY ...	1		AOOFFN
-2	MS51971-3	96906	.NUT, Hex, 3/8-16UNC, SST, ... (AP)	28		PAOZZN
-3	MS35338-141	96906	.WASHER, Lock, 3/8 IN, SST, ... (AP)	28		PAOZZN
-4	MS15795-814	96906	.WASHER, Flat, 3/8 IN, SST, ... (AP)	56		PAOZZN
-5	MS35307-360	96906	.BOLT, Hex, 3/8-16UNC, 1 IN.. LG, SST, (AP)	28		PAOZZN
-6	C50074	76053	..DOOR ASSEMBLY, Front, Left. Front	1		MFOZZN
-7	C50076	76053	..DOOR ASSEMBLY, Front, Right Front	1		MFOZZN
-8	172	88893	...LOCK, Door.....	1		PAOZZN
-9	MS51967-5	96906	...NUT, Hex, 5/16-18UNC, (AP)	4		PAOZZN
-10	MS35338-45	96906	...WASHER, Lock, 5/16 IN, (AP)	4		PAOZZN
-11	MS90725-38	96906	...BOLT, Hex, 5/16-18UNC, .... 1 1/2 IN LG, (AP)	2		PAOZZN
-12	MS27183-12	96906	...WASHER, Flat, 5/16 IN, (AP)	4		PAOZZN
-13	MS90725-34	96906	...BOLT, Hex, 5/16-18UNC, 1 .. IN LG, (AP)	2		PAOZZN
-14	ANSI B16.8.3	96906	...NUT, Hex, 12-24UNC-2B, .... (AP)	28		PAOZZN
-15	ANSI B27.1	96906	...WASHER, Lock, 12, (AP)....	28		PAOZZN
-16	MS90725-34	96906	...BOLT, Hex, 5/16-18UNC, .... 1 IN, (AP)	28		PAOZZN
-17	MS27813-9	96906	...WASHER, Flat, 1/4 IN, (AP)	28		PAOZZN
-18	5867	19220	..HINGE, Door	6		PAOZZN
-19	MS51967-2	96906	..NUT, Hex, 1/4-20UNC-2B, ... (LC)	50		PAOZZN
-20	MS35338-44	96906	..WASHER, Lock, 1/4 IN, .... (AP)	50		PAOZZN
-21	MS90725-15	96906	..BOLT, Hex, 1/4-20UNC-2A, ... 2 1/4 IN LG, (AP)	50		PAOZZN
-22	MS27813-10	96906	..WASHER, Flat, 1/4 IN, (AP)	50		PAOZZN
-23	2445-C	12915	..DOOR HOLDER ASSEMBLY .....	2		PAOZZN
-24	ANSI B16.8.3	96906	..NUT, Hex, 12-24, (AP) ....	20		PAOZZN
-25	ANSI B27.1	96906	..WASHER, Lock, 12, (AP) ...	20		PAOZZN
-26	ANSI B16.8.3	96906	..SCREW, Machine, Pan Head.. (AP)	20		PAOZZN
-27	C50087	67053	..DOOR, Access .....	2		MFOZZN
-28	MS35825-11D	96906	..HINGE, Access Door.....	2		PAOZZN
-29	57-10-111-10	94222	..LATCH, Spring .....	4		PAOZZN
-30	MS20604B4T4	96906	..RIVET, Blind, 1/8 IN DIA.. x 1/4 IN LG	8		PAOZZN
-31	C50110	67053	..HOSE BRACKET ASSEMBLY.....	2		MFOZZN

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
2-32	MS51967-5	96906	...NUT, Hex, 5/16-18UNC-2B,.. (AP)							14	ALL	PAOZZN
-33	MS35338-45	96906	...WASHER, Lock, 5/16 IN,.... (AP)							10		PAOZZN
-34	MS90725-42	96906	...BOLT, Hex, 5/16-18UNC-2A.. (AP)							10		PAOZZN
-35	MS27183-55	96906	...WASHER, Flat, 5/16 IN,.... (AP)							8		PAOZZN
-36	12001	98933	...BRACKET, Strap.....							2		PAOZZN
-37	50209	98933	...STRAP, Bracket.....							2		PAOZZN
-38	12002	98933	...CATCH, Strap.....							2		PAOZZN

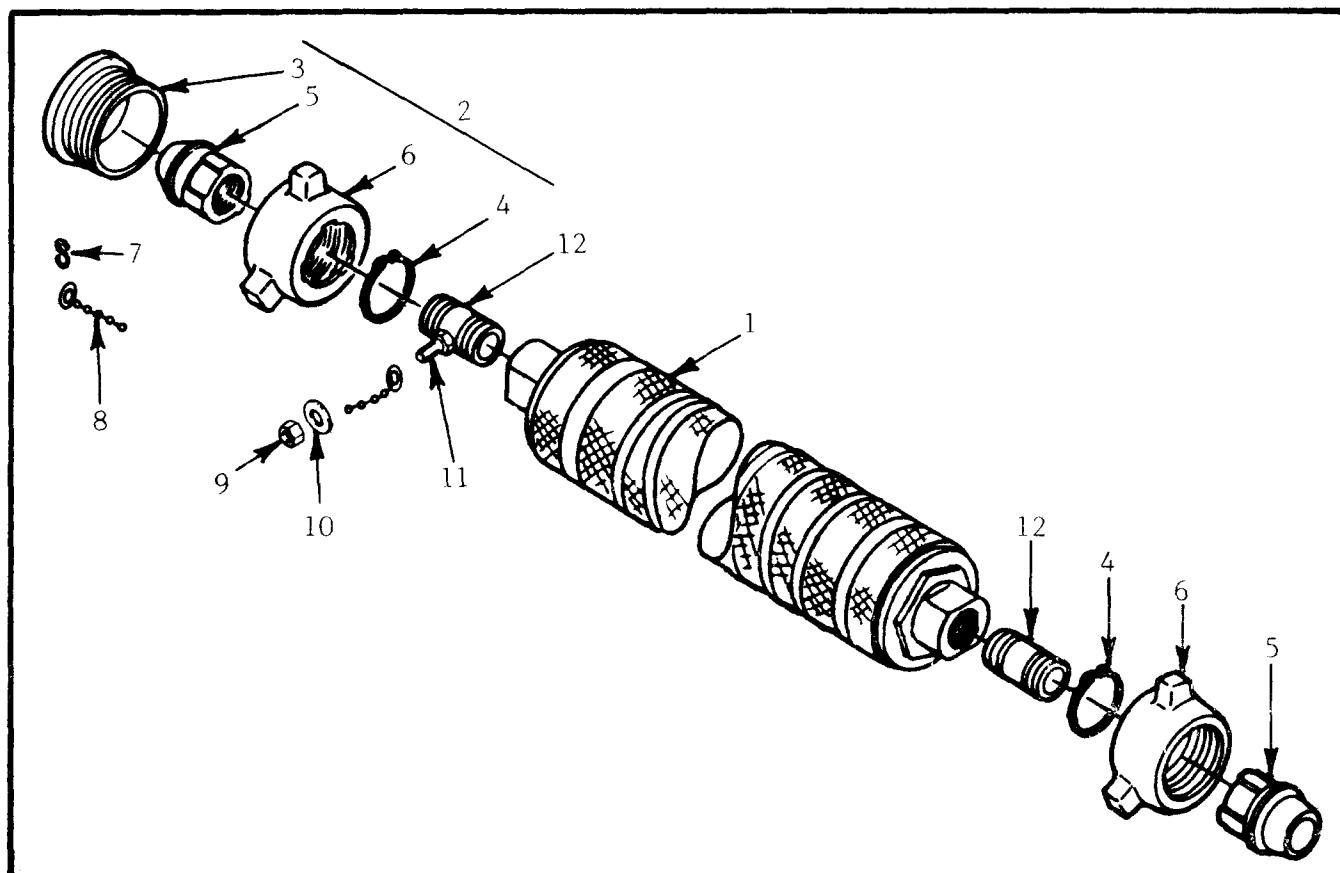


Figure 3. Service Hose Installation.

Figure & Index Number	Part Number	FSCM	Description	Units Per Assy.	Usable On Code	SMR Code
3-1	NO NUMBER MIL-H-27301	98750 81349	HOSE ASSMBLY INSTALLATION ... .HOSE, Transfer, 1 IN ID x ... 10 FT LG, (LC)	REF 1	ALL	- PAOZZN
-2	8991174	18876	..COUPLING ASSEMBLY, LOX ..... 1 IN, (LC)	1		PAOZZN
-3	8987869	18876	...CAP, Dust, LOX Coupling, ... 1 IN, (LC)	1		PAOZZN
-4	8987840	18876	...RING, Retaining, (LC).....	2		PAOZZN
-5	8987856	18876	...CONE, LOX Coupling, (LC)...	2		PAOZZN
-6	8987857	18876	...NUT, LOX Coupling, (LC)...	2		PAOZZN
-7	MS87006-62	96906	...HOOK, Chain "S".....	1		PAOZZN
-8	8034683	14487	...CHAIN, BRS	1		PAOZZN
-9	MS51971	96906	...NUT, Hex, 5/16-18UNC-2B, ... SST	1		PAOZZN
-10	MS35338-140	96906	...WASHER, Lock, 5/16-18-8, ...	1		PAOZZN
-11	MS35307-332	96906	...BOLT, Hex, 5/16-18UNC x ... 1/2 IN LG, SST	1		PAOZZN
-12	AN911-8	96906	...NIPPLE, Pipe, 1 x 2 IN LG, SST, (LC)	2		PAOZZN

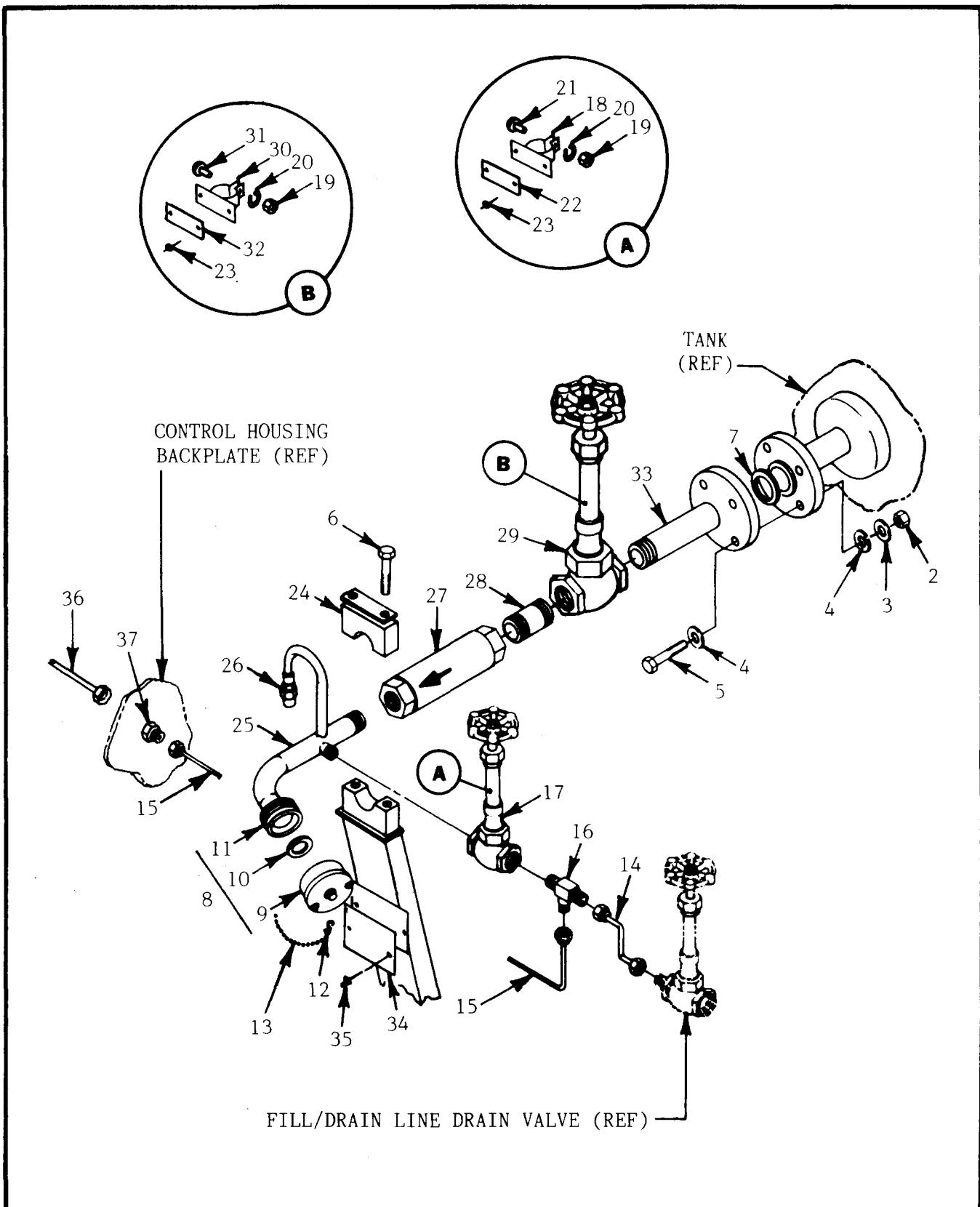


Figure 4. Servicing Line Installation.

Figure & Index Number	Part Number	FSCM	Description	Units Per Assy.	Usable On Code	SMR Code
1	2	3	4	5	6	7
4-1	NO NUMBER C50033	67053 67053	SERVICING LINE INSTALLATION .. .MANIFOLD ASSEMBLY, Servicing, (LC)	REF 1	ALL	- AOG
-2	MS51971-5	96906	.NUT, Hex, 1/2-13UNC, SST,.... (AP)	4		PAOZZN
-3	MS35330-143	96906	.WASHER, Lock, 1/2 IN, SST,... (AP)	4		PAOZZN
-4	MS15795-818	96906	.WASHER, Flat, 1/2 IN, SST,... (AP)	4		PAOZZN
-5	MS35307-415	96906	.BOLT, Hex, 1/2-13UNC, 2 IN... LG, (AP)	4		PAOZZN
-6	MS90725-69	96906	.BOLT, Hex, Pipe Clamp, 3/8- . 16UNC, 2-3/4 IN LG, (AP)	2		PAOZZN
-7	GAF015	67053	..GASKET, Flange, 1 IN, (LC)..	1		PAOZZN
-8	8991173	18876	..COUPLING ASSEMBLY, LOX,.... 1 IN, (LC)	1		PAOZZN
-9	8987869	18876	...CAP, LOX Coupling, 1 IN,... (LC)	1		PAOZZN
-10	8987855	18876	...SEAT, LOX Coupling, 1 IN,.. (LC)	1		PAOZZN
-11	8987833	18876	...GASKET, LOX Coupling, 1 ... IN, (LC)	1		PAOZZN
-12	MS87006-62	96906	...HOOK, Chain "S" .....	1		PAOZZN
-13	8034683	14487	...CHAIN, BRS	1		PAOZZN
-14	C50115-6	67053	..LINE, Drain, 1/4 IN, COP,... (LC)	1		MFOZZN
-15	C50115	67053	..LINE, Drain, 1/4 IN, COP,... (LC)	1		MFOZZN
-16	B-400-3-4TMT	02570	.TEE, Male Run, 1/4 IN, BRS,. (LC)	1		PAOZZN
-17	ES1566-082	16750	..VALVE, Globe, 1/4 IN, See ... Figure 12 for Parts Breakdown	1		PAOBZN
-18	C30139	67053	..CLAMP ASSEMBLY, Nameplate,.. Small	1		MFOZZN
-19	MS51922-2	96906	..NUT, Hex, 1/4-20UNC-2B, (AP)	2		PAOZZN
-20	MS35338-44	96906	..WASHER, Lock, 1/4 IN, (AP)..	2		PAOZZN
-21	MS35275-181	67053	..SCREW, Machine, 1/4-20UNC--. 2A, 1 IN LG, (AP)	2		PAOZZN
-22	C50097-3	67053	.PLATE, Name, Control..... Identification, V-3	1		MFOZZN
-23	MS20604B4T4	96906	.RIVET, Blind, 1/8 IN DIA x... 1/4 IN LG, (AP)	2		PAOZZN
-24	SPAL-5334S-00-AS	53790	..CLAMP, Pipe, 1 IN .....	1		PAOZZN
-25	C30084	67053	..MANIFOLD, (LC).....			
-26	B9422N-150	06023	..VALVE, Line Relief, 150 .... PSIG, Pop Type, 1/4 IN NPT, BRS, (LC)	1		PAOZZN

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
4-27	8321391	98750	..FILTER, 1 IN NPT, (LC).....							1	ALL	PAOOOP
-28	AN911-8	96906	..NIPPLE, Pipe 1 x 2 IN, (LC).							1		PAOZZN
-29	ES1566-088	16750	..VALVE, Globe, 1 IN, See..... Figure 11 for Parts Breakdown							1		PAOBZN
-30	C30140	67053	..CLAMP ASSEMBLY, Nameplate,.. Medium							1		MFOZZN
-31	MS35275-283	96906	..SCREW, Machine, 1/4-20UNC-.. 2A, 3/4 IN LG, (AP)							2		PAOZZN
-32	C50097-4	67053	..PLATE, Name, Control..... Identification, V-4							1		MFOZZN
-33	C30083	67053	..MANIFOLD, Flange, (LC).....							1		PAOBZN
-34	C30089	67053	..PLATE, Warning, Service .... Line							1		MFOZZN
-35	MS20604B4T4	96906	..RIVET, Blind, 1/8 IN DIA x.. 1/4 IN LG, (AP)							4		PAOZZN
-36	C50115-4	67053	..LINE, Drain, 1/4 IN, COP,... (LC)							1		MFOZZN
-37	B-400-61-4AN	02570	..CONNECTOR, Bulkhead, Male,.. 1/4 IN, BRS, (LC)							1		PAOZZN

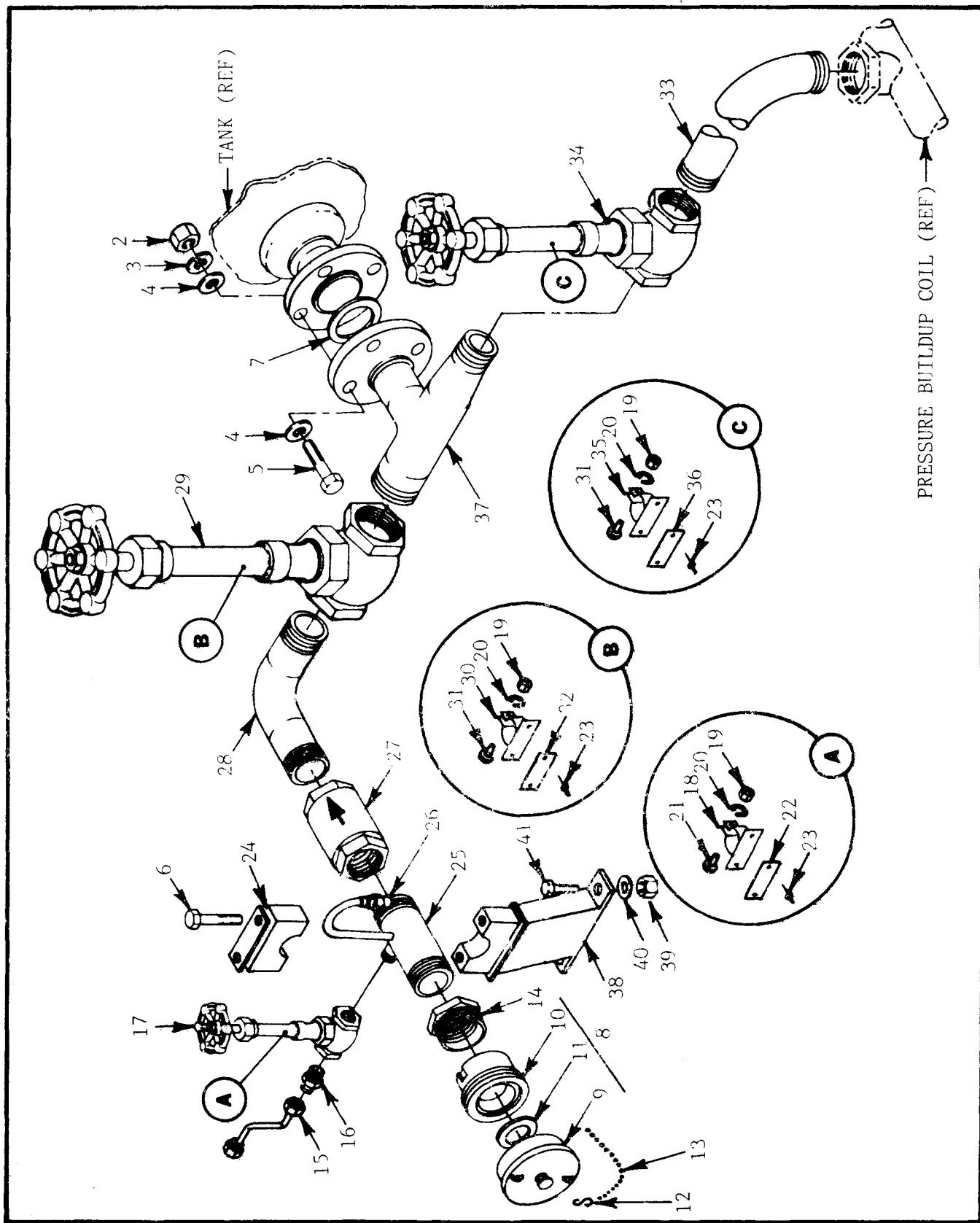


Figure 5. Fill/Drain Line Installation.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
5-1	NO NUMBER C50034	76053 76053	FILL/DRAIN LINE INSTALLATION . .MANIFOLD ASSEMBLY, Fill/ .... Drain Line, (LC)							REF 1	ALL	- AOO
-2	MS35307-466	96906	.NUT, Hex, 5/8-11UNC, SST, ... (AP)							4		PAOZZN
-3	MS35338-145	96906	.WASHER, Lock, 5/8 IN, SST, .. (AP)							4		PAOZZN
-4	MS17795-820	96906	.WASHER, Flat, 5/8 IN, SST,... (AP)							8		PAOZZN
-5	MS35307-466	96906	.BOLT, Hex, 5/8-11UNC, 2-1/2 . IN LG, (AP)							4		PAOZZN
-6	MS90725-99	96906	.BOLT, Hex, 7/16-16UNC, ..... 2 IN LG, (AP)							2		PAOZZN
-7	GAF031	96906	..GASKET, Flange, 2 IN, (LC) .							1		PAOZZN
-8	8891192	18876	..COUPLING ASSEMBLY, LOX, .... 3-1/2 IN, (LC)							1		PAOZZN
-9	8984990	18876	...CAP, Dust, LOX Coupling,... 3-1/2 IN, (LC)							1		PAOZZN
-10	8984433	18876	...SEAT, LOX Coupling,..... 3-1/2 IN, (LC)							1		PAOZZN
-11	8987837	18876	...GASKET, LOX Coupling,..... 3-1/2 IN, (LC)							1		PAOZZN
-12	MS87006-62	96906	...HOOK, Chain "S".....							1		PAOZZN
-13	8034683	14487	...CHAIN, BRS							1		PAOZZN
-14	C30071	67053	..BUSHING, Hex, 3-1/2 IN x.... 2 IN NPT, (LC)							1		PAOZZN
-15	C50115-6	67053	..LINE, Drain, COP, (LC).....							1		MFOZZN
-16	B-400-1-4	02570	..CONNECTOR, 1/4 IN, (LC)....							1		PAOZZN
-17	ES1566-082	16570	..VALVE, Globe, 1/4 IN, See .. Figure 12 for Parts Breakdown							1		PAOBZN
-18	C30138	67053	.CLAMP ASSEMBLY, Nameplate,... Small							1		MFOZZN
-19	MS51922-2	96906	.NUT, Hex, 1/4-20UNC-2B,..... (AP)							2		PAOZZN
-20	MS35338-44	96906	.WASHER, Lock, 1/4 IN, (AP)...							2		PAOZZN
-21	MS35275-281	96906	.SCREW, Machine, 1/4-20UNC- .. 2A, 3/4 IN LG, (AP)							2		PAOZZN
-22	C50097-6	76053	.PLATE, Name, Control ..... Identification, V-6							1		MFOZZN
-23	MS20604B4T4	96906	.RIVET, Blind, 1/8 IN DIA x .. 1/4 IN LG, (AP)							2		PAOZZN
-24	SPAL-66035-00-AS	53790	.CLAMP, Pipe, 2 IN .....							1		PAOZZN
-25	C30082	67053	..MANIFOLD, (LC).....							1		
-26	B9422N-150	06023	..VALVE, Line Relief, 150 .... PSIG, Pop Type, 1/4 IN NPT, BRS, (LC)							1		PAOZZN

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
5-27	8518507	98750	..FILTER ASSEMBLY, 2 IN NPT,.. (LC)							1	ALL	PAOOOP
-28	C30081	67053	..MANIFOLD, (LC) .....							1		PAOZZN
-29	ES1566-816	16750	..VALVE, Globe, 2 IN, See .... Figure 10 for Parts Breakdown							1		PAOBZN
-30	C30140	67053	.CLAMP ASSEMBLY, Nameplate,... Large							1		MFOZZN
-31	MS35375-283	96906	.SCREW, Machine, 1/4-20UNC- .. 2A, 1 IN LG, (AP)							2		PAOZZN
-32	C50097-5	67053	.PLATE, Control .....							1		MFOZZN
-33	C10075	67053	..MANIFOLD, (LC).....							1		PAOZZN
-34	ES1566-088	16570	..VALVE, Globe, 1 IN, See .... Figure 11 for Parts Breakdown							1		PAOBZN
-35	C30139	67053	.CLAMP ASSEMBLY, Nameplate, ..							1		MFOZZN
-36	C50097-7	67053	.PLATE, Control.....							1		MFOZZN
-37	C30080	67053	..MANIFOLD, (LC) .....							1		PAOZZN
-38	C30360	67053	.SUPPORT, Manifold .....							1		MFOZZN
-39	MS51967-5	96906	.NUT, Hex, 5/16-18 UNC, (AP)..							2		PAOZZN
-40	MS35338	96906	.WASHER, Lock, 5/16 IN, (AP)..							2		PAOZZN
-41	MS90725-32	96906	.BOLT, Hex, 5/16-18 UNC, (AP)..							2		PAOZZN

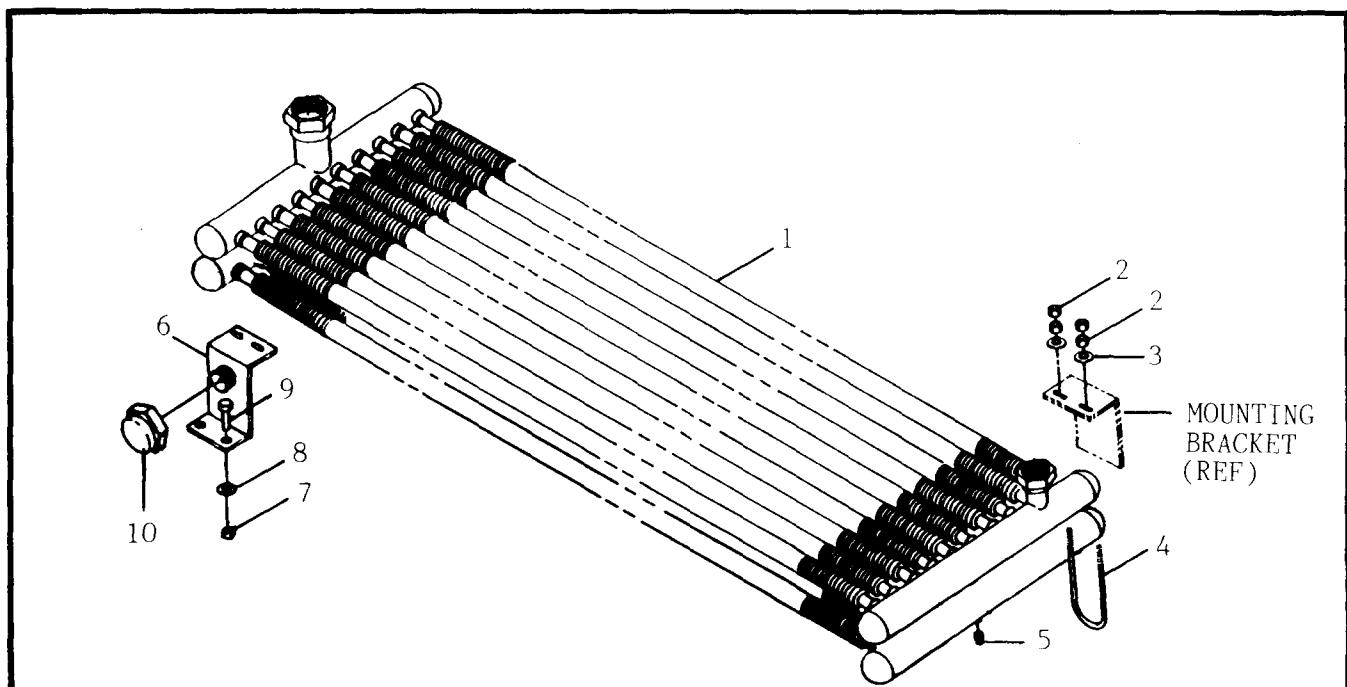


Figure 6. Pressure Buildup Coil Installation.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
6-	NO NUMBER	67053	PRESSURE BUILDUP COIL..... INSTALLATION							REF	ALL	-
-1	C50154	67053	.PRESSURE BUILDUP COIL..... ASSEMBLY, (LC)							1		PBOFFP
-2	MS519171-3	96906	.NUT, Hex, 3/8-16UNC, SST,... (AP)							16		PAOZZN
-3	MS15795-814	96906	.WASHER, Flat, 3/8 IN, SST... (AP)							8		PAOZZN
-4	8889T46	39428	.U-BOLT, 2 IN Pipe, 3/8 IN,.. (AP)							4		PAOZZN
-5	MS20913-2J	96906	.PLUG, Pipe, 1/4 IN, SST.... (LC)							1		PAOZZN
-6	C30074	67053	.BRACKET, Left Front.....							1		MFOZZN
-7	MS51967-5	96906	.NUT, Hex, 5/16-18UNC, SST,.. (AP)							2		PAOZZN
-8	MS35338-45	96906	.WASHER, Lock, 5/16 IN,..... (AP)							2		PAOZZN
-9	MS90725-32	96906	.BOLT, Hex, 5/16-18UNC x 3/4 . IN LG, (AP)							2		PAOZZN
-10	C70040-18	67053	.CAP, .....							1		PAOZZN

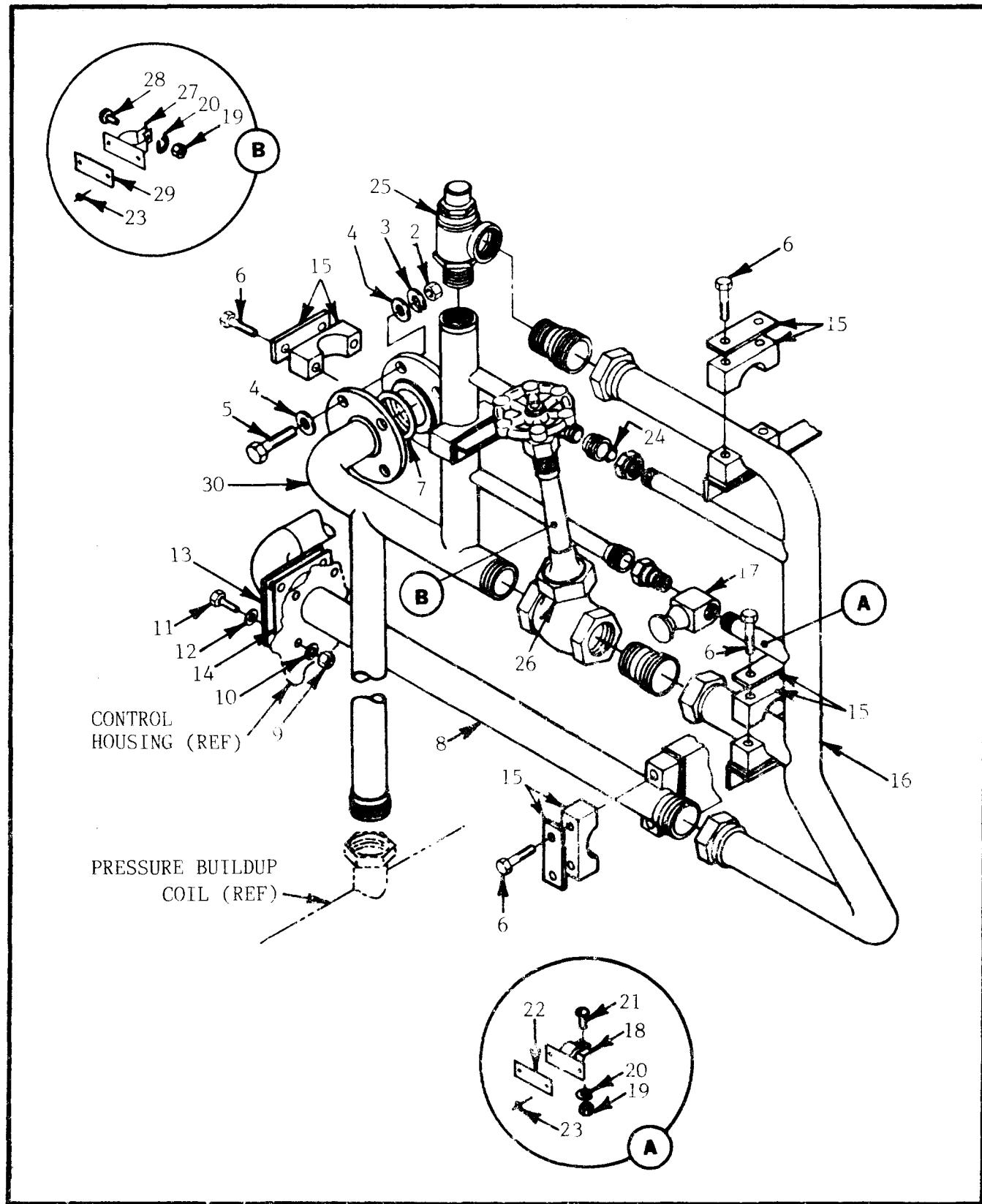


Figure 7. Vapor Vent Manifold Installation.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
7-1	NO NUMBER C50037	67053 67053	VAPOR VENT MANIFOLD .....							REF 1	ALL	- AOO
-2	MS51971-7	96906	.MANIFOLD ASSEMBLY, Vapor Vent, (LC)							4		PAOZZN
-3	MS51338-145	96906	.NUT, Hex 5/8-11UNC, SST,.....(AP)							8		PAOZZN
-4	MS15795-820	96906	.WASHER, Lock, 5/8 IN, (AP)...							8		PAOZZN
-5	MS35307-466	96906	.WASHER, Flat, 5/8 IN, SST,....(AP)							4		PAOZZN
-6	MS90725-99	96906	.BOLT, Hex 5/8-13UNC, 2 IN....LG, (AP)							8		PAOZZN
-7	GAF031	67053	.GASKET, Flange, 2 IN, (LC)..							1		PAOZZN
-8	C30036	67053	.LINE, Vent, (LC).....							1		PAOZZN
-9	MS51971-1	96906	...NUT, Hex, 1/4-20UNC, SST,..(AP)							4		PAOZZN
-10	MS35338-139	96906	...WASHER, Lock, 1/4 IN,.....SST, (AP)							4		PAOZZN
-11	MS35307-308	96906	...BOLT, Hex, 1/4-20UNC, 1 IN LG, (AP)							4		PAOZZN
-12	MS15795-810	96906	...WASHER, Flat, 1/4 IN, ....SST, (AP)							4		PAOZZN
-13	C10094	67053	...ADAPTER, Plate, Vent Line .							1		MFOZZN
-14	C10095	67053	...GASKET, Adapter Plate .....							1		PAOZZN
-15	SPAL-6603S-00-AS	53790	..CLAMP, Pipe, 2 IN							4		PAOZZN
-16	C30033	67053	..MANIFOLD, Vent Line, (LC) ..							1		PAZZN
-17	10673	71342	..VALVE, Pressure Control, ... (LC)							1		PAOZZN
-18	C30142	67053	.CLAMP ASSEMBLY, Nameplate, .. Medium, Rotated							1		MFOZZN
-19	MS51922-2	96906	.NUT, Hex, 1/4-20UNC-2B, (AP).							1		PAOZZN
-20	MS35338-44	96906	.WASHER, Lock, 1/4 IN, (AP)...							1		PAOZZN
-21	MS35275-283	96906	.SCREW, Machine, 1/4-20UNC- .. 2A, 1 IN LG, (AP)							1		PAOZZN
-22	C50097-13	96906	.PLATE, Control, ..... Identification, PC-1							1		MFOZZN
-23	MS20604B4T4	96906	.RIVET, Blind, 1/8 IN DIA x .. 1/4 IN LG, (AP)							2		PAOZZN
-24	UA-2	32874	..DISC, Rupture, (LC) .....							1		PAOZZN
-25	1856M	72352	..VALVE, Relief, (LC) .....							1		PAOZZN
-26	ES1566-816	16570	..VALVE, Globe, 2 IN, See .... Figure 2-10 for Parts Breakdown							1		PAOBZN
-27	C30140	67053	.CLAMP ASSEMBLY, Nameplate ... Large							1		MFOZZN
-28	MS35275-283	96906	.SCREW, Machine, 1/4-20UNC-... 2A, 1 IN LG, (AP)							2		PAOZZN
-29	C50097-8	67053	.PLATE, Control ..... Identification, V-8							1		MFOZZN
-30	C30035	67053	..MANIFOLD, Vent Line, (LC) ..							1		MFOZZN

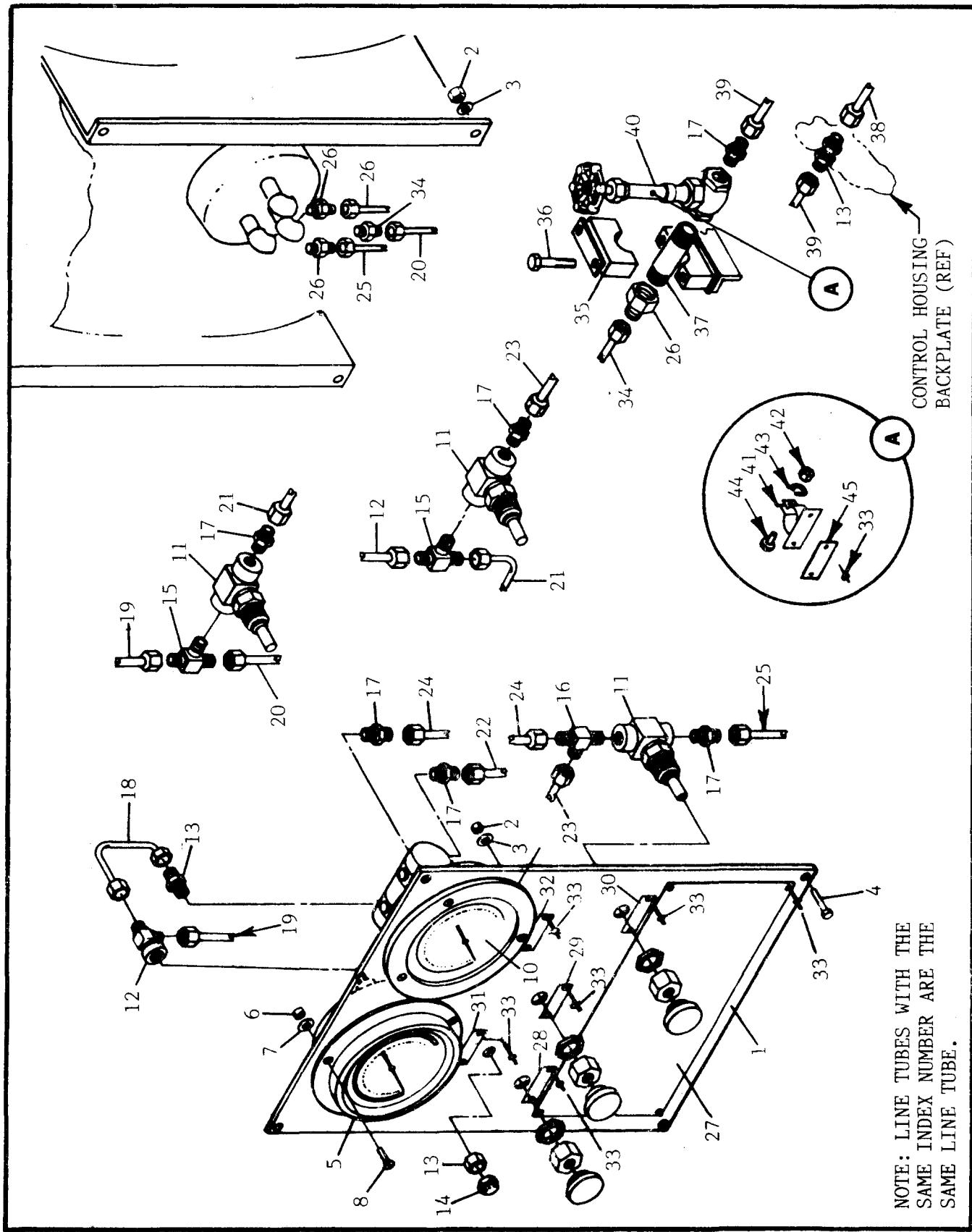


Figure 8. Control Panel Installation.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
8-	NO NUMBER	67053	CONTROL PANEL INSTALLATION ...							REF	ALL	-
-1	C50043	67053	.PANEL ASSEMBLY .....							1		A00
-2	MS51971-1	96906	.NUT, Hex, 1/4-20UNC, SST, ... (AP)							8		PAOZZN
-3	MS35338-139	96906	.WASHER, Lock, 1/4 IN, SST, ... (AP)							8		PAOZZN
-4	MS35307-308	96906	.BOLT, Hex, 1/4-20UNC, 1 IN .. LG, SST, (AP)							4		PAOZZN
-5	B-D-P-X-0	56608	..INDICATOR, Pressure, (LC) ..							1		PAOZZN
-6	ANSI B16.8.3	96906	..NUT, Hex, 12-24-18-8, SST, .. (AP)							3		PAOZZN
-7	ANSI B27.1	96906	..WASHER, Lock, 12-18-8, SST, .. (AP)							3		PAOZZN
-8	ANSI B16.8.3	96906	..SCREW, Machine, 12-24, (AP)							3		PAOZZN
-9	1126FF	39739	..INDICATOR, Liquid Level, ... (LC)							1		PAOZZN
-10	C30040	67053	...FACE, Indicator, Liquid ... Level							1		PAOZZN
-11	B-1RF4	12623	..VALVE, Needle, 1/4 IN, (LC).							3		PAOZZN
-12	B-400-3-4TFT	02570	..TEE, Female Run, 1/4 IN, ... BRS, (LC)							1		PAOZZN
-13	B-400-61-4AN	02570	..CONNECTOR, Bulkhead, Male, .. 1/4 IN, BRS, (LC)							1		PAOZZN
-14	AN929A4J	02570	..CAP, 1/4 IN, (LC)							1		PAOZZN
-15	B-400-3-4TTN	02570	..TEE, Male Branch, 1/4 IN, .. BRS, (LC)							2		PAOZZN
-16	B-400-3-4TMT	02570	..TEE, Male Run, 1/4 IN, BRS, .. (LC)							1		PAOZZN
-17	B-400-1-4	02570	..CONNECTOR, Male, 1/4 IN, ... BRS, (LC)							5		PAOZZN
-18	C50114-6	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-19	C50114-5	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-20	C50114-7	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-21	C50114-4	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-22	C50114-2	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-23	C50114-3	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-24	C50114-1	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-25	C50114-8	67053	..TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-26	B-400-1-4	02570	..CONNECTOR, Female, 1/4 IN, .. BRS, (LC)							3		PAOZZN
-27	C50098	67053	..PLATE, Decal, Operating .... Instructions							1		PAFZZN
-28	C50097-10	67053	..PLATE, Decal, V-10 .....							1		MFOZZN
-29	C50097-12	67053	..PLATE, Decal, V-12 .....							1		MFOZZN
-30	C50097-11	67053	..PLATE, Decal, V-11 .....							1		MFOZZN
-31	C50097-2	67053	..PLATE, Decal, PI-1 .....							1		MFOZZN
-32	C50097-1	67053	..PLATE, Decal, LL-1 .....							1		MFOZZN
-33	MS20604B4T4	67053	..RIVET, Blind, 1/8 IN DIA ... x 1/4 IN, (AP)							16		MFOZZN

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
8-34	C50115-1	67503	.TUBE, 1/4 IN, COP, (LC).....							1	ALL	MFOZZN
-35	SPAL-3137S-PP-AS	53790	.CLAMP, Pipe, 1/4 IN .....							1		PAOZZN
-36	MS70725-99	96906	.BOLT, Hex, 7/16-16UNC, 4 IN.. LG, (AP)							2		PAOZZN
-37	C10083	67053	.PIPE, Nipple, 1/4 x 2-1/2 ... IN LG, (LC)							1		PAOZZN
-38	C50115-3	67053	.TUBE, 1/4 IN, COP, (LC)..... BRS, (LC)							1		MFOZZN
-39	C50115-2	67053	.TUBE, 1/4 IN, COP, (LC).....							1		MFOZZN
-40	ES1566-082	16570	.VALVE, Globe, 1/4 IN. See.... Figure 12 for Parts Breakdown							1		MFOZZN
-41	C30140	67053	.CLAMP ASSEMBLY, Nameplate,... Small							1		MFOZZN
-42	MS51922-2	96906	.NUT, Hex, 1/4-20UNC-2A,..... 3/4 IN LG, (AP)							1		PAOZZN
-43	MS35338-44	96906	.WASHER, Lock, 1/4 IN, (AP)...							1		PAOZZN
-44	MS35275-281	96906	.SCREW, Machine, 1/4-20UNC- .. 2A, 3/4 IN LG, (AP)							1		PAOZZN
-45	C50097-9	67053	..PLATE, Name, Control ..... Identification, V-9							1		MFOZZN

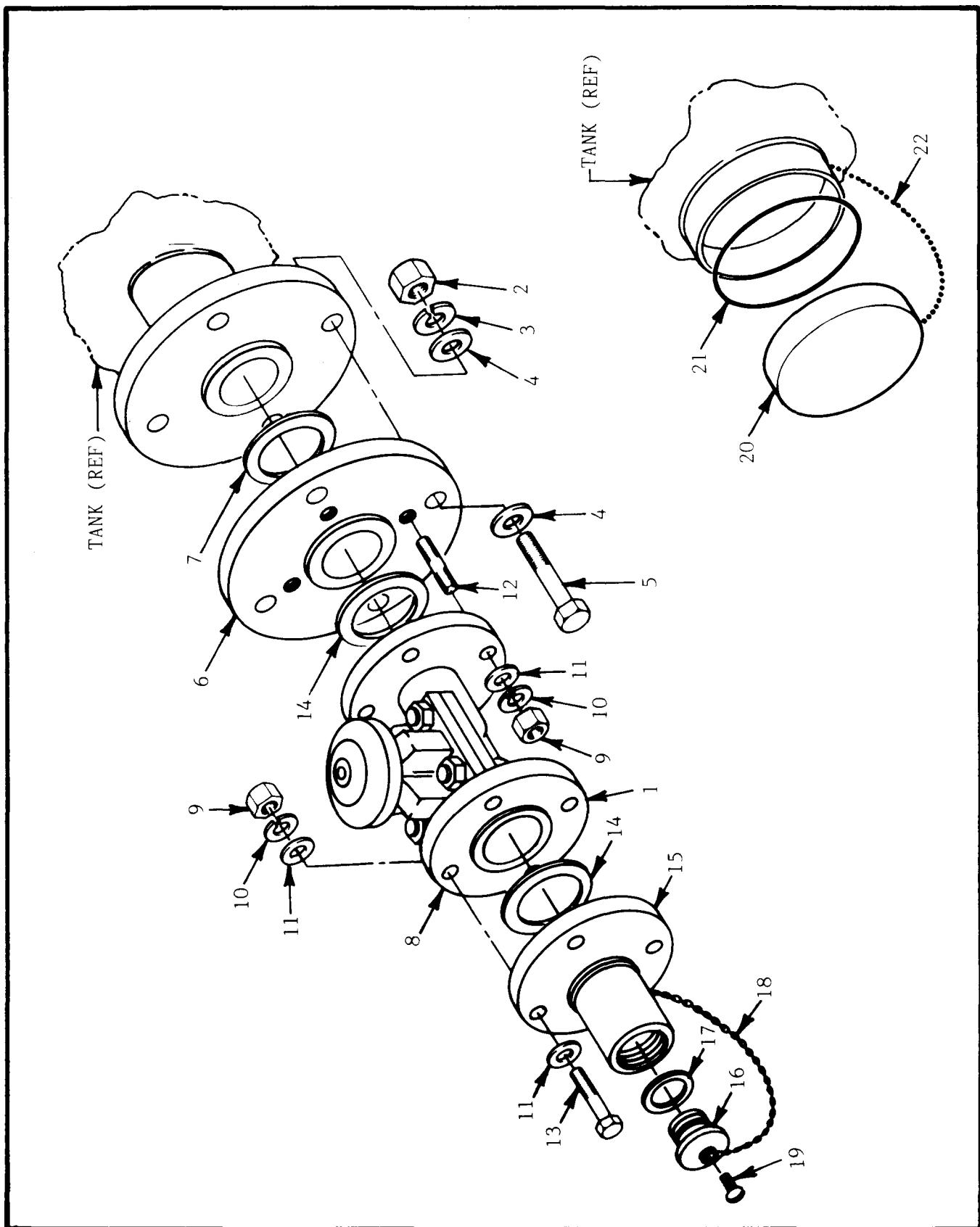


Figure 9. Vacuum Line Shutoff Valve Installation.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
9-	NO NUMBER	67053	VACUUM LINE INSTALLATION .....							REF	ALL	-
-1	C50065	67053	.VACUUM LINE ASSEMBLY .....							1		A00
-2	MS51967-926	96906	.NUT, Hex, 5/8-11UNC-2B, SST,.. (AP)							4		PAOZZN
-3	MS35338-5017	96906	.WASHER, Lock, 5/8 IN, SST,... (AP)							4		PAOZZN
-4	MS27183-2118	96906	.WASHER, Flat, 5/8 IN, SST,... (AP)							12		PAOZZN
-5	MS90725-168	96906	.BOLT, Hex, 5/8-11UNC-2A,..... 3 IN LG, SST, (AP)							4		PAOZZN
-6	C30029	67053	..FLANGE, Valve .....							1		MFOZZN
-7	GAF037	67053	..GASKET, Flange, 3 IN, ..... Nitrile							1		PAOZZN
-8	3304-11-4T	67053	..VALVE, Vacuum Line, Shutoff							1		PAOZZN
-9	MS51967-1410	96906	...NUT, Hex, 1/2-13UNC-2B, ... (AP)							8		PAOZZN
-10	MS35338-4811	96906	...WASHER, Lock, 1/2 IN, (AP)							8		PAOZZN
-11	MS27183-1812	96906	...WASHER, Flat, 1/2 IN, (AP)							12		PAOZZN
-12	ANSI B16.5.15	96906	...STUD, 1/2-13UNC-2A, 1-3/4. IN LG, (AP)							4		PAOZZN
-13	MS35307-415	96906	...BOLT, 1/2-13UNC-2A, 2 IN.. LG, (AP)							4		PAOZZN
-14	GAF017	67053	...GASKET, Flange, 1 IN, ..... Nitrile							2		PAOZZN
-15	66C1627	98750	..FITTING, Vacuum Flange.....							1		PAOZZN
-16	QQ-B-626	07878	...PLUG, BRS							1		PAOZZN
-17	MS28775-124	98750	...GASKET, Viton .....							1		PAOZZN
-18	RR-C-271	07878	...CHAIN, Bead, 10 IN LG, .... BRS							1		PAOZZN
-19	MS35214-12	96906	...SCREW, 1/4-40UNC-2B, (AP).							1		PAOZZN
-20	C30003	67053	.SAFETY HEAD, Outer Shell....							1		PAOZZN
-21	AV0034	67053	.O-RING .....							1		PAOZZN
-22	CHM302	67053	.CHAIN, 1/4 IN DIA, 12 IN LG.							1		PAOZZN

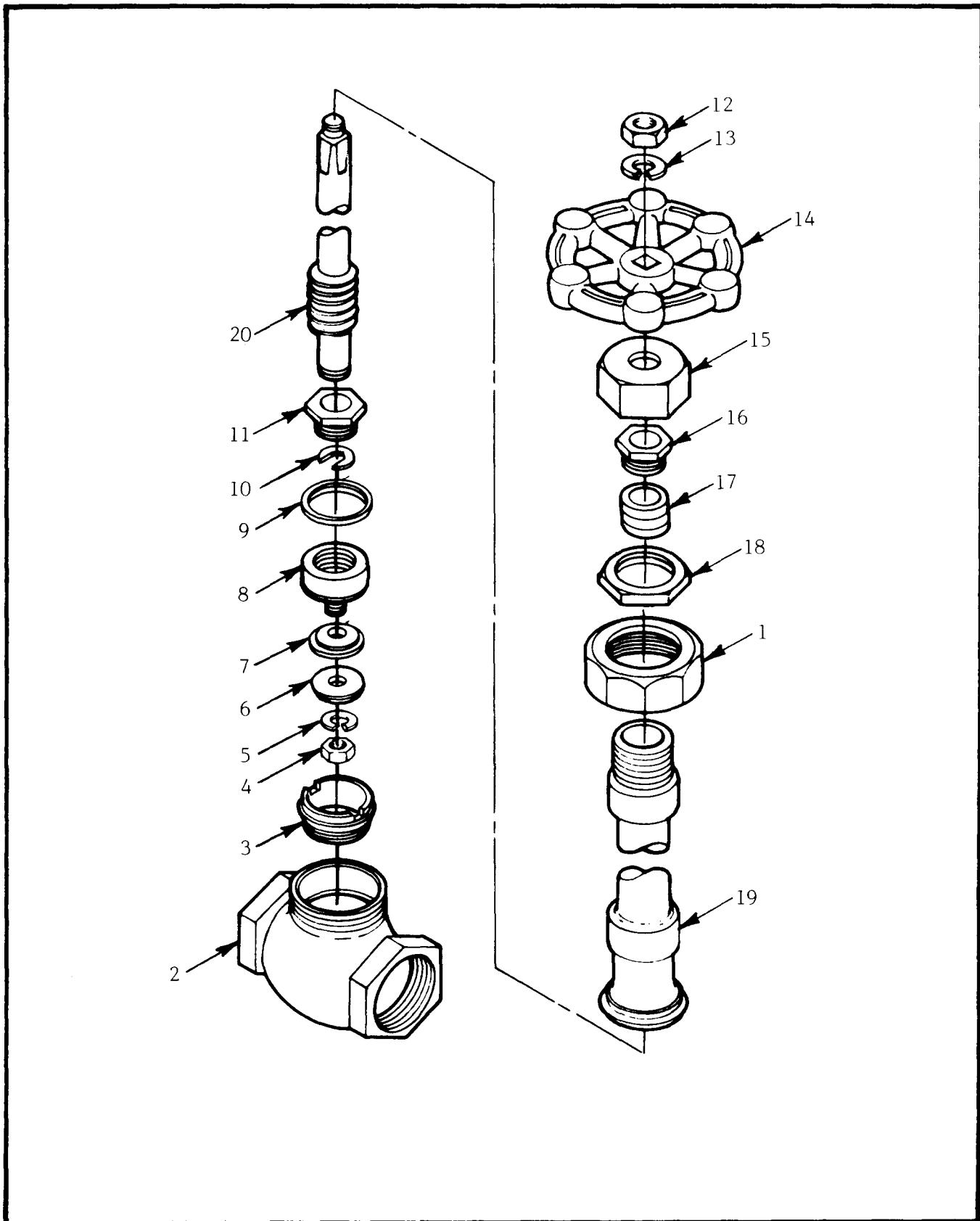


Figure 10. 2 IN Globe Valve.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
10-	ES1566-816	16570	VALVE ASSEMBLY, Fill/Drain ... and Vapor Vent, 2 IN Globe, Extended Stem, BRZ Body (LC)							REF	ALL	PAOBZN
-1	1566-816-10	16570	.NUT, Bonnet, 2 IN Valve, BRZ							1		XBO
-2	1566-816-13	16570	.BODY, 2 IN Valve, BRZ .....							1		XAO
-3	1566-816-2-03	16570	.RING, Seat, 2 IN Valve, BRZ .							1		XBO
-4	1566-816-2-05	16570	.DISC NUT, 2 IN Valve, BRZ ...							1		XBO
-5	1566-816-2-04	16570	.LOCK WASHER, 2 IN Valve, BRZ							1		XBO
-6	1566-816-2-02	16570	.DISC RETAINER, 2 IN Valve,BRZ							1		XBO
-7	1566-816-2-01	16570	.DISC INSERT, 2 IN Valve,KEL-F							1		PAOZZN
-8	1566-816-2-06	16570	.DISC HOLDER, 2 IN Valve, BRZ.							1		XBO
-9	1566-816-14	16570	.LOCK NUT RETAINER, 2 IN Valve							1		XBO
-10	1566-816-15	16570	.RING, Horseshoe, 2 IN Valve..							1		XBO
-11	1566-816-12	16570	.DISC LOCK NUT, 2 IN Valve,BRZ							1		XBO
-12	1566-816-3	16570	.NUT, Handwheel,2 IN Valve,BRS							1		XBO
-13	1566-816-11	16570	.LOCK WASHER, 2 IN Valve.....							1		XBO
-14	1566-816-4	16570	.HANDWHEEL, 2 IN Valve, I ....							1		PAOZZN
-15	1566-816-5	16570	.PACKING NUT, 2 IN Valve, BRS.							1		XBO
-16	1566-816-7	16750	.PACKING GLAND, 2 IN Valve,BRS							1		XBO
-17	1566-816-9	16570	.PACKING, 2 IN Valve,Teflon ...							1		PAOZZN
-18	1566-816-8	16570	.LOCK NUT, 2 IN Valve, BRS....							1		XBO
-19	1566-816-6	16570	.BONNET ASSEMBLY,2 IN Valve,BRZ							1		XAO
-20	1566-816-1	16570	.STEM ASSEMBLY, 2 IN Valve,SST							1		XAO

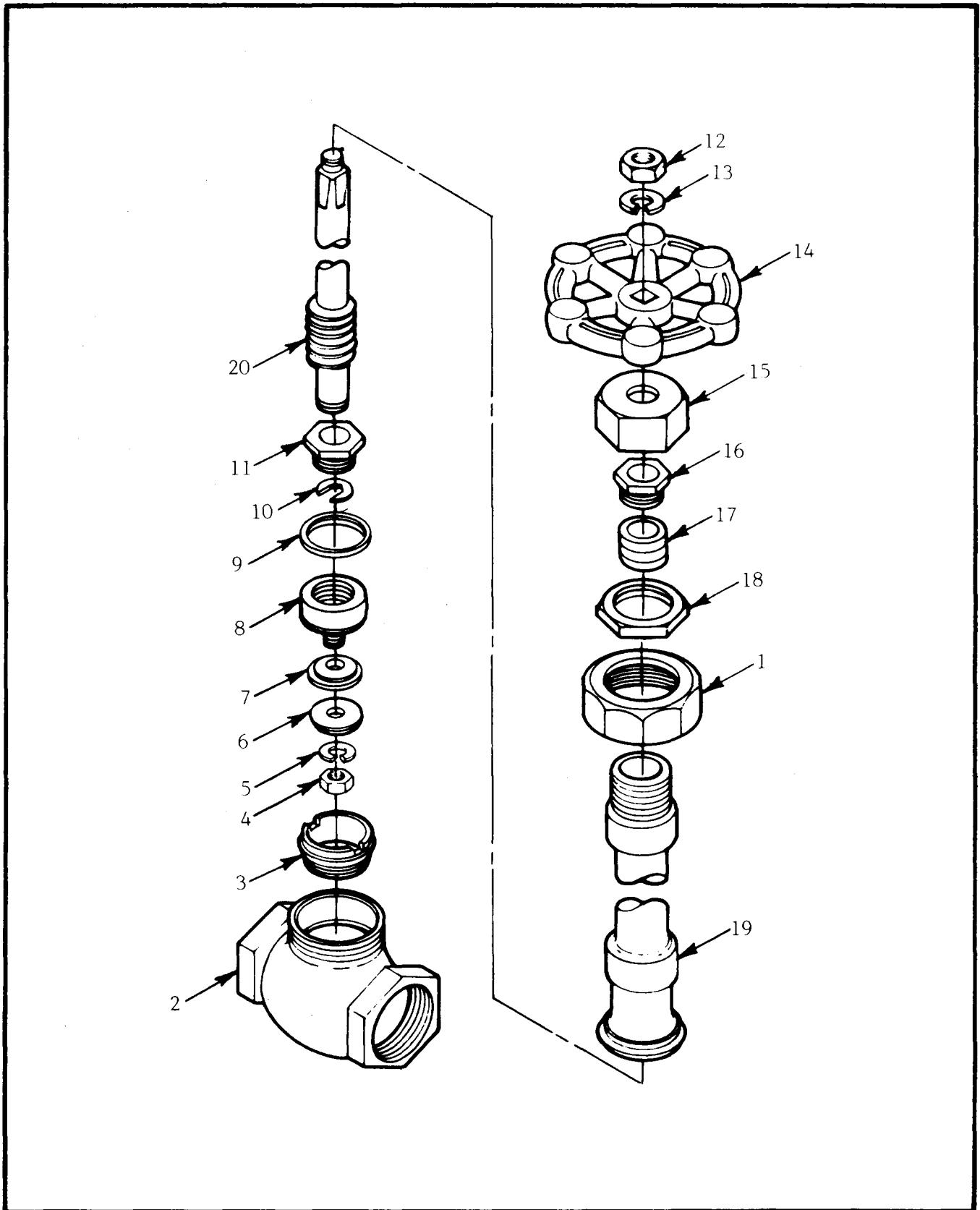


Figure 11. 1 Inch Globe Valve.

Figure & Index Number	Part Number	FSCM	Description							Units Per Assy.	Usable On Code	SMR Code
			1	2	3	4	5	6	7			
11-	ES1566-088	16570	VALVE ASSEMBLY, Service and ..							REF	ALL	PAOBZN
			Pressure buildup, 1 IN Globe,									
			Extended stem, BRZ Body, (LC)									
-1	1566-088-10	16570	.NUT, Bonnet, 1 IN Valve, BRZ							1		XBO
-2	1566-088-13	16570	.BODY, 1 IN Valve, BRZ .....							1		XAO
-3	1566-088-2-03	16570	.SEAT RING, 1 In Valve, BRZ ..							1		XBO
-4	1566-088-2-05	16570	.DISC NUT, 1 IN Valve, BRZ ...							1		XBO
-5	1566-088-2-04	16570	.LOCK WASHER, 1 IN Valve, BRZ							1		XBO
-6	1566-088-2-02	16570	.DISC RETAINER, 1 IN Valve,BRZ							1		XBO
-7	1566-088-2-01	16570	.DISC INSERT, 1 IN Valve,KEL-F							1		PAOZZN
-8	1566-088-2-06	16570	.DISC HOLDER, 1 IN Valve, BRZ							1		XBO
-9	1566-088-14	16570	.LOCK NUT RETAINER, 1 IN Valve							1		XBO
-10	1566-088-15	16570	.RING, Horseshoe, 1 IN Valve .							1		XBO
-11	1566-088-12	16570	.DISC LOCK NUT, 1 IN Valve,BRZ							1		XBO
-12	1566-088-3	16570	.NUT, Handwheel,1 IN Valve,BRS							1		XBO
-13	1566-088-11	16570	.LOCK WASHER, 1 IN Valve.....							1		XBO
-14	1566-088-4	16570	.HANDWHEEL, 1 IN Valve, I....							1		PAOZZN
-15	1566-088-5	16570	.PACKING NUT, 1 IN Valve, BRS							1		XBO
-16	1566-088-7	16570	.PACKING GLAND, 1 IN Valve,BRS							1		XBO
-17	1566-088-9	16570	.PACKING, 1 IN Valve, Teflon .							1		XBO
-18	1566-088-8	16570	.LOCK NUT, 1 IN Valve, BRS...							1		XBO
-19	1566-088-6	16570	.BONNET ASSEMBLY, 1 IN Valve .							1		XAO
-20	1566-088-1	16570	.STEM ASSEMBLY, 1 IN Valve,BRZ							1		XAO

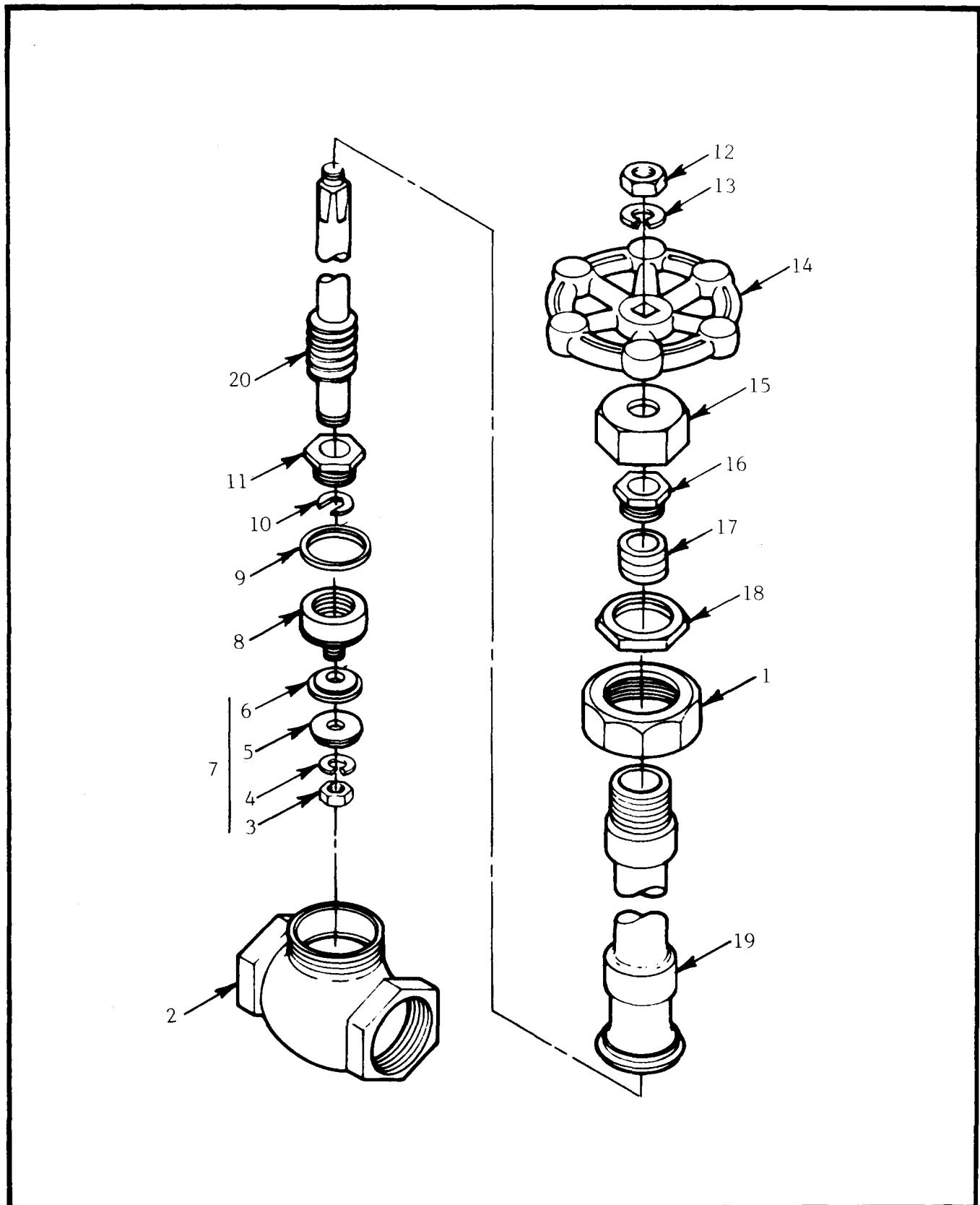


Figure 12. 1/4 Inch Globe Valve.

Figure & Index Number	Part Number	FSCM	Description	Units Per Assy.	Usable On Code	SMR Code
12-	ES1566-082	16570	VALVE ASSEMBLY, Drain and Full Full Trycock, 1/4 IN Globe, Extended stem, BRZ Body (LC)	REF	ALL	PAOBZN
-1	1566-082-10	16570	.NUT, Bonnet, 1/4 IN Valve,....	1	XBO	
-2	1566-082-13	16570	.BODY, 1/4 IN Valve, BRZ .....	1	XAO	
-3	1566-082-2-05	16570	.DISC NUT, 1/4 IN Valve, BRZ .	1	XBO	
-4	1566-082-2-04	16570	.LOCK WASHER, 1/4 IN Valve, ..	1	XBO	
-5	1566-082-2-02	16570	.DISC RETAINER, 1/4 IN Valve,..	1	XBO	
-6	1566-082-2-01	16570	.DISC INSERT, 1/4 IN Valve, ... KEL-F	1	PAOZZN	
-7	1566-082-2-06	16570	.DISC HOLDER, 1/4 IN Valve, BRZ	1	XBO	
-8	1566-082-14	16570	.LOCK NUT RETAINER,1/4 IN Valve	1	XBO	
-9	1566-082-15	16570	.RING, Horseshoe, 1/4 IN Valve	1	XBO	
-10	1566-082-12	16570	.DISC LOCK NUT, 1/4 IN Valve,.. BRZ	1	XBO	
-11	1566-082-3	16570	.NUT, Handwheel, 1/4 IN Valve, BRS	1	XBO	
-12	1566-082-11	16570	.LOCK WASHER, 1/4 IN Valve ...	1	XBO	
-13	1566-082-4	16570	.HANDWHEEL, 1/4 IN Valve, I ..	1	PAOZZN	
-14	1566-082-5	16570	.PACKING NUT, 1/4 IN Valve,BRS	1	XBO	
-15	1566-082-7	16570	.PACKING GLAND, 1/4 IN Valve, BRS	1	XBO	
-16	1566-082-9	16570	.PACKING, 1/4 IN Valve, Teflon	1	PAOZZN	
-17	1566-082-8	16570	.LOCK NUT, 1/4 IN Valve, BRS	1	XBO	
-18	1566-082-6	16570	.BONNET ASSEMBLY, 1/4 IN Valve	1	AXO	
-19	1566-082-1	16570	.STEM ASSEMBLY, 1/4 IN Valve,.. BRZ	1	AXO	

## SECTION III

### NUMERICAL INDEX

Part Number	Figure and Index	Part Number	Figure and Index	Part Number	Figure and Index
ANSI B16.5.15	9-12	C30089	4-34	C50110	2-31
ANSI B16.8.3	8-6	C30090	1-21	C50114-1	8-24
	8-8	C30138	5-18	C50114-2	8-22
ANSI B27.1	8-7	C30139	4-18	C50114-3	8-23
	2-15		5-35	C50114-4	8-21
AN929A4J	8-14	C30140	4-30	C50114-5	8-19
AV0034	9-21		5-30	C50114-6	8-18
B-1RF4	8-11		7-27		
B-400-1-4	5-16		8-4	C50114-7	8-20
	8-17	C30142	7-18	C50114-8	8-25
B-400-7-6	8-26	C30144	1-20	C50115-1	8-24
B-400-3-4TFT	8-12				
B-400-3-4TMT	4-16	C50033	1-4	C50115-2	8-38
	8-16		4-1	C50115-3	8-39
B-400-3-4-TTN	8-15	C50034	1-4	C50115-4	4-36
			5-1	C50115-5	4-15
B-D-P-X-0	8-5	C50037	7-1	C50115-6	4-14
B9422N-150	4-26	C50043	8-1		5-15
	5-26	C50154	1-6	C70013	1-1
CHM302	9-22		6-1	C70043	2-1
AN911-8	3-12	C50065	9-1		
	4-28		2-9	GAF015	4-7
C10075	5-33	C50074	2-6	GAF017	9-14
C10083	8-37	C50076	2-7	GAF031	5-7
C10094	7-13	C50097-1	8-32		7-7
C10095	7-14	C50097-2	8-31	GAF037	9-7
C30003	9-20			ES1566-082	4-17
		C50097-3	4-22		5-17
C30029	9-6	C50097-4	4-32		8-40
C30030	1-13	C50097-5	5-32	ES1566-088	4-29
C30033	7-16				5-34
C30034	5-1	C50097-6	5-22	ES1566-816	5-29
C30035	7-30	C50097-7	5-36		7-26
C30036	7-8	C50097-8	7-29	MS15795-810	7-12
C30040	8-10	C50097-9	8-45	MS15795-814	2-4
C30071	5-14	C50097-10	8-28		6-3
C30080	5-37	C50097-11	8-30	MS15795-818	4-4
C30081	5-28	C50097-12	8-29		
C30082	5-25	C50097-13	7-22	MS15795-820	5-4
C30083	4-33	C50098	8-27		7-4
C30084	4-26	C50099	1-18	MS16285-3	1-14
				MS17795-820	5-4

Part Number	Figure and Index	Part Number	Figure and Index	Part Number	Figure and Index
MS20604B4T4	1-19 2-30 4-23 4-35 5-23 7-23 8-33	MS35338-481 MS35338-5017 MS35375-283 MS51967-2 MS51967-5 MS51967-141	9-10 9-3 5-31 2-19 2-9 9-9	1566-082-2-04 1566-082-2-05 1566-082-2-06 1566-082-3 1566-082-4 1566-082-5 1566-082-6	12-4 12-3 12-8 12-12 12-14 12-15 12-19
MS20913-2J	6-5	MS51967-926	9-2	1566-082-7	12-16
MS27183-12	2-12 9-11	MS51971 MS51971-1	3-9 7-9	1566-082-8	12-18
MS27183-14	1-16	MS51971-3	8-2	1566-082-9	12-17
MS27183-55	2-35	MS51971-5	2-2	1566-082-10	12-13
MS27188-2118	9-4	MS51971-7	6-2	1566-082-11	12-13
MS27813-9	2-17	MS51971-7	4-2	1566-082-12	12-11
MS27813-10	2-22		7-2	1566-082-13	12-2
MS28774-124	9-17	MS70725-99		1566-082-14	12-9
MS35214-12	9-19	MS87006-62	8-36 3-7	1566-082-15 1566-088-1	12-10 11-21
MS35275-281	4-21 5-21 8-44		4-12 5-12 MS90725-15		
MS35275-283	4-31 7-21 7-28		2-21 2-13 2-34	1566-088-2-01 1566-088-2-02 1566-088-2-03	11-7 11-6 11-3
MS35307-308	7-11 8-4	MS90725-69 MS90725-99	4-6 5-6	1566-088-2-04 1566-088-2-05 1566-088-2-06	11-5 11-4 11-9
MS35307-332	3-11		7-6	1566-088-3	11-13
MS35307-360	2-5	MS90725-168	9-5	1566-088-4	11-15
MS35307-415	4-5	MS90728-64	1-17	1566-088-5	11-16
MS35307-466	9-13 5-5 7-5	QQ-B-626 RR-C271 SPAL-3137S-PP-AS	9-16 9-18 8-35	1566-088-6 1566-088-7 1566-088-8	11-20 11-17 11-19
MS35330-143	4-3	SPAL-5334S-00-AS	4-24	1566-088-9	11-18
MS35338-44	2-20 4-20 5-20 7-20 8-43	SPAL-6603S-00-AS UA-2 172 5867 10673	5-24 7-15 7-25 2-8 2-18	1566-088-10 1566-088-11 1566-088-12 1566-088-13 1566-088-14	11-1 11-14 11-12 11-2 11-10
MS35338-45	2-10 2-23	1126FF 12001	7-17 8-9	1566-088-15 1566-816-1	11-11 10-21
MS35338-46	1-5	12002	2-36		
MS35338-139	7-10 8-3	1566-082-1	2-38	1566-816-2-01 1566-816-2-02	10-7 10-6
MS35338-140	3-10			1566-816-2-03	10-3
MS35338-141	2-3			1566-816-2-04	10-5
MS35338-145	5-3 7-3	1566-082-2-01 1566-082-2-02	12-6 12-5	1566-816-2-05 1566-816-2-06	10-4 10-9

Part Number	Figure and Index	Part Number	Figure and Index	Part Number	Figure and Index
1566-816-3	10-13	1856M	7-25	8321391	4-27
1566-816-4	10-15	3304-11-4T	9-8	8518507	5-27
1566-816-5	10-16	4551F2B	1-11	8889T46	6-4
		49B6564	1-12	8984433	5-10
1566-816-6	10-20	50209	2-37	8984990	5-9
1566-816-7	10-17	57-10-111-10	2-29	8987833	4-11
1566-816-8	10-19	MIL-H-27301	3-1	8987837	5-11
1566-816-9	10-18	66C1627	9-15	8987840	3-4
1566-816-10	10-1	8034683	3-8	8987855	4-10
1566-816-11	10-14		4-13	8987856	3-5
1566-816-12	10-12		5-13		
1566-816-13	10-2	8221044-01*	1-22	8987857	3-6
1566-816-14	10-10			8987869	3-3
1566-816-15	10-11			8991173	4-9
				8991174	4-8
					3-2

